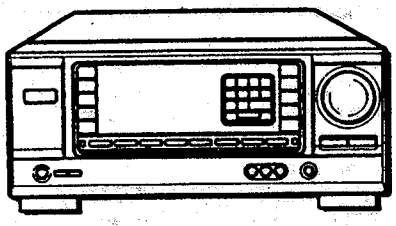
aiwa

aiwa SERVICE

AV-X120
AV-X220



STEREO RECEIVER

• TYPE: U

SERVICE MANUAL

S/M Code No. 09-976-196-30I

SPECIFICATIONS

FM tuner section

Tuning range 87.5 MHz to 108 MHz
Usable sensitivity (IHF) 13.2 dBf
Antenna terminals 75 ohms (unbalanced)

AM tuner section

Tuning range 530 kHz to 1710 kHz (10 kHz step), 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity 350 µV/m
Antenna Loop antenna

Amplifier section

Power output (AV-X220)

[Stereo Mode]
Front
125 watts per channel, Min. RMS at 4 or 8 ohms, from 40 Hz to 20 kHz, with no more than 0.8% Total Harmonic Distortion
[Dolby Pro Logic Mode]
Front
120 watts per channel, Min. RMS at 4 or 8 ohms (selectable), from 40 Hz to 20 kHz, with no more than 0.9% Total Harmonic Distortion
Rear (Surround)
60 watts per channel, Min. RMS at 8 ohms, 1 kHz, with no more than 0.9% Total Harmonic Distortion
Center
120 watts, Min. RMS at 4 or 8 ohms (selectable), 1 kHz, with no more than 0.9% Total Harmonic Distortion

Power output (AV-X120)

[Stereo Mode]
Front
75 watts per channel, Min. RMS at 4 or 8 ohms, from 40 Hz to 20 kHz, with no more than 0.8% Total Harmonic Distortion
[Dolby Pro Logic Mode]
Front
70 watts per channel, Min. RMS at 4 or 8 ohms, from 40 Hz to 20 kHz, with no more than 0.9% Total Harmonic Distortion
Rear (Surround)
35 watts per channel, Min. RMS at 8 ohms, 1 kHz, with no more than 0.9% Total Harmonic Distortion
Center
70 watts, Min. RMS at 4 or 8 ohms, 1 kHz, with no more than 0.9% Total Harmonic Distortion

Total harmonic distortion 0.07 % (105 W, 1 kHz, 8 ohms, Front)

Inputs
AUDIO IN
PHONO: 2.8 mV (50 kohms)
CD: 300 mV (50 kohms)
TAPE MONITOR: 200 mV (25 kohms)
VIDEO 1, VIDEO 2/LD/MD, VIDEO 3, AUX/TV: 250 mV (50 kohms)
VIDEO IN: 1 Vp-p (75 ohms)

Outputs
AUDIO OUT (REC OUT): 200 mV (2 kohms)
VIDEO OUT (MONITOR): 1 Vp-p (75 ohms)
SUPER WOOFER: 3.1 V
FRONT SPEAKERS IMP: 8Ω/4Ω selectable (front speakers A and B):
With the SPEAKER IMPEDANCE SELECTOR set to 4Ω, accepts speakers of 4 ohms.
With the SPEAKER IMPEDANCE SELECTOR set to 8Ω, accepts speakers of 8 ohms or more.
SURROUND SPEAKERS IMP: 8Ω (surround speakers): accepts speakers of 8 ohms or more

CENTER SPEAKER IMP: 8Ω/4Ω selectable
With the SPEAKER IMPEDANCE SELECTOR set to 4Ω, accepts speaker of 4 ohms.
With the SPEAKER IMPEDANCE SELECTOR set to 8Ω, accepts speaker of 8 ohms or more.
PHONES (stereo jack): accepts headphones of 32 ohms or more

Muting –20 dB

General (AV-X220)

Power requirements 120 V AC, 60 Hz
Power consumption 210 W
Dimensions (W × H × D) 360 × 153.5 × 335 mm (14¼ × 6⅛ × 13¼ in.)
Weight 10.3 kg (22 lb 11 oz.)

General (AV-X120)

Power requirements 120 V AC, 60 Hz
Power consumption 160 W
Dimensions (W × H × D) 360 × 153.5 × 335 mm (14¼ × 6⅛ × 13¼ in.)
Weight 8.5 kg (18 lb 12 oz.)

- Design and specifications are subject to change without notice.

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A20-514-010		C-IC,M62460FP
	87-AR4-600-010		IC,LC866440W-5E85
	87-070-083-010		IC,GP1U281X
	87-017-915-080		C-IC,BU4094BCF
	87-017-022-080		C-IC,NJM2068M-D(T1)
	87-001-222-080		C-IC,NJU4051BM(T1)
	87-002-779-010		IC,LA7956
	87-017-917-080		C-IC,BU4066BCF
	87-017-888-080		C-IC,NJM4558MD
	87-A20-056-010		IC,BA3880S
	87-017-726-080		C-IC,BU4052BCF
	87-A20-069-040		C-IC,BA3842F
	87-070-127-110		IC,LC72131D
	87-017-714-110		IC,LA1836L
TRANSISTOR			
	89-213-702-010		TR,2SB1370E
	89-110-372-080		C-TR,2SA1037K(R)
	89-324-122-080		C-TR,2SC2412KR
	87-A30-066-080		TR,2SA1175FE
	89-332-665-080		TR,2SC3266GR
	87-A30-076-080		C-TR,2SC3052F
	87-026-263-080		C-TR,RN1410
	89-110-155-080		C-TR,2SA1015GR
	87-026-610-080		TR,KTC3198GR
	87-026-238-080		C-TR,DTC144WK
	87-026-230-080		C-TR,DTA114YK
	87-A30-086-080		C-TR,CSD1306E
	87-A30-106-080		C-TR,CMBT5551
	87-A30-111-080		TR,C2N5401
	87-A30-097-010		TR,FN1016
	87-A30-098-010		TR,FP1016
	87-A30-089-010		FET,2SK2723
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-075-080		C-TR,2SA1235F
	87-A30-073-080		C-TR,RT1N 141C
	87-026-228-080		C-TR,DTA124EK
	87-A30-132-080		C-TR,2SC2235Y
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-047-080		TR,CSD655E
	89-109-521-080		TR,2SA952K
	89-421-141-080		C-TR,2SD2114KU
	87-026-232-080		C-TR,DTA144WK
	87-026-236-080		C-TR,DTC124EK
	87-026-638-080		C-TR,UN221E
	89-327-143-080		C-TR,2SC2714(O)
	87-026-214-080		TR,DTA114YS
	89-505-434-540		C-FET,2SK543-TB(4/5)
DIODE			
	87-A40-186-080		ZENER,UZ5.1BSC
	87-A40-246-080		DIODE,1N4148T-72
	87-A40-115-060		DIODE,RS603M
	87-A40-224-010		DIODE,GBU8DL
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-017-436-080		ZENER,UZ-4.7BSA
	87-A40-206-080		ZENER,UZ10BSC
	87-A40-199-080		ZENER,UZL6H2
	87-A40-209-080		ZENER,UZ27BSD
	87-017-437-080		DIODE,1N4148M
	87-070-178-090		DIODE,1N5402-BD54<120U>
	87-A40-274-010		DIODE,FMB-G16L<220U>
	87-A40-202-080		ZENER,UZ5.1BSB
	87-002-743-080		ZENER,MTZJ33B
	87-017-932-080		ZENER,MTZJ6.2B<220U>
MAIN C.B			
C102	87-012-368-080		C-CAP,S 0.1-50 Z F
C103	87-012-368-080		C-CAP,S 0.1-50 Z F
C104	87-012-368-080		C-CAP,S 0.1-50 Z F
C105	87-012-368-080		C-CAP,S 0.1-50 Z F
C106	87-012-368-080		C-CAP,S 0.1-50 Z F
C107	87-012-368-080		C-CAP,S 0.1-50 Z F
C108	87-A10-462-090		CAP,E 6800-63 SMG VB<120U>
C108	87-A10-416-090		CAP,E 6800-80 SMG VB<220U>
C109	87-A10-462-090		CAP,E 6800-63 SMG VB<120U>
C109	87-A10-416-090		CAP,E 6800-80 SMG VB<220U>
C110	87-A10-056-090		CAP,E 4700-35 M
C111	87-A10-056-090		CAP,E 4700-35 M
C113	87-010-235-080		CAP,E 470-16 SME
C123	87-010-260-080		CAP,E 47-25 SME
C124	87-010-403-080		CAP,E 3.3-50 M SME
C201	87-010-406-080		CAP,E 22-50 M SME
C202	87-010-406-080		CAP,E 22-50 M SME
C205	87-010-179-080		C-CAP,1200P-50 K B<120U>
C205	87-015-629-080		C-CAP,2200P-50 K B<220U>
C206	87-010-182-080		C-CAP,S 2200P-50 K B
C207	87-010-406-080		CAP,E 22-50 M SME
C208	87-010-406-080		CAP,E 22-50 M SME
C209	87-010-406-080		CAP,E 22-50 M SME
C210	87-010-406-080		CAP,E 22-50 M SME
C211	87-010-179-080		C-CAP,S 1200P-50 K B
C212	87-010-179-080		C-CAP,S 1200P-50 K B
C213	87-010-260-080		CAP,E 47-25 SME
C214	87-010-260-080		CAP,E 47-25 SME
C215	87-016-461-080		C-CAP,S 0.47-16 Z F
C217	87-010-247-080		CAP,E 100-50 M SME
C218	87-012-368-080		C-CAP,S 0.1-50 Z F
C220	87-010-247-080		CAP,E 100-50 M SME
C223	87-015-835-080		C-CAP,0.047-50 K B
C225	87-010-322-080		C-CAP,S 100P-50 J CH
C226	87-010-322-080		C-CAP,S 100P-50 J CH
C229	87-010-805-080		C-CAP,S 1-16 Z F
C230	87-010-805-080		C-CAP,S 1-16 Z F
C231	87-010-805-080		C-CAP,S 1-16 Z F
C232	87-010-805-080		C-CAP,S 1-16 Z F
C239	87-010-305-080		C-CAP,470P-50 J CH
C240	87-010-305-080		C-CAP,470P-50 J CH
C241	87-010-178-080		C-CAP,S 1000P-50 K B
C242	87-010-178-080		C-CAP,S 1000P-50 K B
C301	87-010-405-080		CAP,E 10-50 M SME
C302	87-010-405-080		CAP,E 10-50 M SME
C305	87-010-182-080		C-CAP,S 2200P-50 K B
C306	87-010-182-080		C-CAP,S 2200P-50 K B
C307	87-010-406-080		CAP,E 22-50 M SME
C308	87-010-406-080		CAP,E 22-50 M SME
C309	87-010-406-080		CAP,E 22-50 M SME
C310	87-010-406-080		CAP,E 22-50 M SME
C311	87-010-179-080		C-CAP,S 1200P-50 K B
C312	87-010-179-080		C-CAP,S 1200P-50 K B
C313	87-010-260-080		CAP,E 47-25 SME
C314	87-010-260-080		CAP,E 47-25 SME
C315	87-016-461-080		C-CAP,S 0.47-16 Z F
C316	87-010-408-040		CAP,E 47-50 M SME
C317	87-010-247-080		CAP,E 100-50 M SME
C318	87-012-368-080		C-CAP,S 0.1-50 Z F
C319	87-012-368-080		C-CAP,S 0.1-50 Z F<220U>
C320	87-010-247-080		CAP,E 100-50 M SME
C323	87-010-194-080		C-CAP,S 0.047-25 Z F
C325	87-010-322-080		C-CAP,S 100P-50 J CH
C326	87-010-322-080		C-CAP,S 100P-50 J CH
C329	87-010-805-080		C-CAP,S 1-16 Z F

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C330	87-010-805-080		C-CAP,S 1-16 Z F
C331	87-010-805-080		C-CAP,S 1-16 Z F
C332	87-010-805-080		C-CAP,S 1-16 Z F
C339	87-010-305-080		C-CAP,470P-50 J CH
C340	87-010-305-080		C-CAP,470P-50 J CH
C341	87-010-178-080		C-CAP,S 1000P-50 K B
C342	87-010-178-080		C-CAP,S 1000P-50 K B
C345	87-010-408-040		CAP,E 47-50 M SME
C501	87-010-404-080		CAP,E 4.7-50 M SME
C502	87-010-404-080		CAP,E 4.7-50 M SME
C503	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C504	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C511	87-010-404-080		CAP,E 4.7-50 M SME
C512	87-010-404-080		CAP,E 4.7-50 M SME
C513	87-010-260-080		CAP,E 47-25 SME
C514	87-010-260-080		CAP,E 47-25 SME
C515	87-010-370-080		CAP,E 330-6.3 M SME
C516	87-010-370-080		CAP,E 330-6.3 M SME
C525	87-010-184-080		C-CAP,S 3300P-50 K B
C526	87-010-184-080		C-CAP,S 3300P-50 K B
C531	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C532	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C533	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C534	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C541	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C549	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C551	87-010-406-080		CAP,E 22-50 M SME
C552	87-010-406-080		CAP,E 22-50 M SME
C553	87-010-406-080		CAP,E 22-50 M SME
C554	87-010-406-080		CAP,E 22-50 M SME
C555	87-010-406-080		CAP,E 22-50 M SME
C556	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C557	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C558	87-010-384-080		CAP,E 100-25 M SME
C559	87-010-371-080		CAP,E 470-6.3 M SME
C560	87-010-371-080		CAP,E 470-6.3 M SME
C561	87-010-371-080		CAP,E 470-6.3 M SME
C604	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C605	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C621	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C631	87-010-322-080		C-CAP,S 100P-50 J CH
C632	87-018-209-080		CAP,TC U 0.1-50 Z F UP050
C641	87-010-405-080		CAP,E 10-50 M SME
C642	87-010-405-080		CAP,E 10-50 M SME
C643	87-010-301-080		C-CAP,220P-50 J CH
C644	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C645	87-010-197-080		C-CAP,S 0.01-25 K B
C646	87-010-197-080		C-CAP,S 0.01-25 K B
C647	87-010-195-080		C-CAP,S 0.068-25 Z F C2012
C648	87-010-195-080		C-CAP,S 0.068-25 Z F C2012
C649	87-010-260-080		CAP,E 47-25 SME
C651	87-010-378-080		CAP,E 10-16 M SME
C652	87-010-378-080		CAP,E 10-16 M SME
C661	87-012-140-080		C-CAP,S 470P-50 J CH
C662	87-018-127-080		CAP,TC U 470P-50 K B UP050
C663	87-010-188-080		C-CAP,S 6800P-50 K B
C664	87-010-188-080		C-CAP,S 6800P-50 K B
C665	87-010-101-080		CAP,E 220-16 SME
C666	87-010-404-080		CAP,E 4.7-50 M SME
C667	87-010-404-080		CAP,E 4.7-50 M SME
C668	87-010-404-080		CAP,E 4.7-50 M SME
C669	87-010-404-080		CAP,E 4.7-50 M SME
C670	87-010-404-080		CAP,E 4.7-50 M SME
C671	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C672	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C701	87-010-404-080		CAP,E 4.7-50 M SME
C702	87-010-197-080		C-CAP,S 0.01-25 K B
C703	87-010-197-080		C-CAP,S 0.01-25 K B
C704	87-018-131-080		CAP,TC U 1000P-50 K B UP050
C707	87-010-546-080		CAP,E 0.33-50 SME
C708	87-010-546-080		CAP,E 0.33-50 SME
C711	87-010-263-080		CAP,E 100-10 SME
C712	87-010-112-080		CAP,E 100-16 M SME
C722	87-010-152-080		C-CAP,S 8P-50 D CH
C723	87-010-178-080		C-CAP,S 1000P-50 K B
C725	87-010-178-080		C-CAP,S 1000P-50 K B
C727	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C728	87-010-248-080		CAP,E 220-10 SME
C729	87-018-134-080		CAP,TC U 0.01-16 N Y UP050
C731	87-012-153-080		C-CAP,S 120P-50 J CH GRM
C732	87-012-155-080		C-CAP,S 180P-50 J CH GRM
C733	87-012-155-080		C-CAP,S 180P-50 J CH GRM
C771	87-010-405-080		CAP,E 10-50 M SME
C772	87-010-194-080		C-CAP,S 0.047-25 Z F
C774	87-010-263-080		CAP,E 100-10 SME
C775	87-010-405-080		CAP,E 10-50 M SME
C776	87-010-197-080		C-CAP,S 0.01-25 K B
C777	87-010-400-080		CAP,E 0.47-50 M SME
C778	87-010-401-080		CAP,E 1-50 M SME
C779	87-010-401-080		CAP,E 1-50 M SME
C780	87-010-197-080		C-CAP,S 0.01-25 K B
C789	87-010-194-080		C-CAP,S 0.047-25 Z F
C790	87-010-194-080		C-CAP,S 0.047-25 Z F
C791	87-010-401-080		CAP,E 1-50 M SME
C792	87-010-180-080		C-CAP,S 1500P-50 K B
C793	87-010-189-080		C-CAP,S 8200P-50 K B
C794	87-010-260-080		CAP,E 47-25 SME
C795	87-010-194-080		C-CAP,S 0.047-25 Z F
C796	87-010-403-080		CAP,E 3.3-50 M SME
C797	87-010-197-080		C-CAP,S 0.01-25 K B
C799	87-010-405-080		CAP,E 10-50 M SME
C820	87-010-260-080		CAP,E 47-25 SME
C821	87-010-197-080		C-CAP,S 0.01-25 K B
C823	87-010-197-080		C-CAP,S 0.01-25 K B
C825	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C834	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C835	87-016-461-080		C-CAP,S 0.47-16 Z F
C836	87-010-401-080		CAP,E 1-50 M SME
C837	87-010-197-080		C-CAP,S 0.01-25 K B
C849	87-010-197-080		C-CAP,S 0.01-25 K B
C850	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C901	87-010-197-080		C-CAP,S 0.01-25 K B
C920	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C955	87-010-197-080		C-CAP,S 0.01-25 K B
C960	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C988	87-010-198-080		C-CAP,S 0.022-25 K B
C989	87-010-154-080		C-CAP,S 10P-50 D CH
CF801	87-008-261-080		FLTR,CF SFE10.7MA5
CF802	87-008-261-080		FLTR,CF SFE10.7MA5
EMI501	87-008-372-080		FLTR,EMIBL01 RN1
FFE801	A8-6ZA-195-030		6ZA-1 YFEENM
J261	87-A60-198-010		JACK,6.3 BLK ST W/O SW HPJ
J521	87-099-609-010		JACK,PIN 4P BLK W/O SW
J522	87-099-609-010		JACK,PIN 4P BLK W/O SW
J525	87-099-911-010		JACK,PIN 3P YEL W/O SW
J527	87-099-911-010		JACK,PIN 3P YEL W/O SW
J530	87-A60-197-010		JACK,PIN 3P Y/W/R W/O SW H
J583	87-099-911-010		JACK,PIN 3P YEL W/O SW
J584	87-099-911-010		JACK,PIN 3P YEL W/O SW
J586	87-099-911-010		JACK,PIN 3P YEL W/O SW
J801	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02
L551	87-005-444-080		COIL,100UH K FLR50
L741	87-A50-015-010		COIL,FM DET (TOK)
L742	87-A90-052-010		FLTR, CFMT-450A(TOK)
L770	87-005-849-080		COIL,10UH K CECS
L832	87-005-847-080		COIL,2.2UH K CECS
L981	85-NF7-664-010		TU UNIT, AM PACK 1, (SG1) R
⚠PR104	87-026-691-080		FUSE,10A 125V 251
⚠PR105	87-026-691-080		FUSE,10A 125V 251
⚠PR106	87-026-691-080		FUSE,10A 125V 251

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
⚠PR107	87-026-691-080		FUSE,10A 125V 251
⚠PR201	87-026-691-080		FUSE,10A 125V 251
⚠PR202	87-026-691-080		FUSE,10A 125V 251
⚠PR301	87-026-691-080		FUSE,10A 125V 251
⚠PR302	87-026-691-080		FUSE,10A 125V 251
R229	87-022-184-080		RES,M/F 0.33-1W J
R230	87-022-184-080		RES,M/F 0.33-1W J
R231	87-022-184-080		RES,M/F 0.33-1W J
R232	87-022-184-080		RES,M/F 0.33-1W J
R295	87-A00-126-080		RES,M/F 220-1W J VTP
R296	87-A00-126-080		RES,M/F 220-1W J VTP
R297	87-A00-126-080		RES,M/F 220-1W J VTP
R298	87-A00-126-080		RES,M/F 220-1W J VTP
R329	87-022-184-080		RES,M/F 0.33-1W J
R330	87-022-184-080		RES,M/F 0.33-1W J
R331	87-022-184-080		RES,M/F 0.33-1W J
R332	87-022-184-080		RES,M/F 0.33-1W J
SFR722	87-024-171-080		SFR,4.7K H RH0638C
SW261	87-A90-174-010		SW,PUSH 2-2-2
SW262	87-A90-174-010		SW,PUSH 2-2-2
TC721	87-011-253-080		TRIMMER,CER 30P 4.0X4.5 ECRLA
TH201	87-A90-221-080		C-THMS,100K
TH202	87-A90-221-080		C-THMS,100K
TH301	87-A90-221-080		C-THMS,100K
TH302	87-A90-221-080		C-THMS,100K
W101	87-AR4-676-010		F-CABLE,8P 2.5 400MM BL
W103	87-AR4-678-010		F-CABLE,2P 2.5 150MM BL
X703	84-508-618-010		VIB,CER CSB 456 F15
X721	87-030-372-010		VIB,XTAL 7.200MHZ CSA-309

FRONT-1 C.B

C101	87-018-209-010		CAP,TC U 0.1-50 Z F UP050
C103	87-010-316-080		C-CAP,S 33P-50 CH
C105	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C106	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C108	87-015-681-040		CAP,E 10-16 7L SRA
C109	87-010-178-080		C-CAP,S 1000P-50 K B
C111	87-010-263-040		CAP,E 100-10 M SME
C112	87-A10-189-040		CAP,E 220-10 M
C113	87-010-544-080		CAP,E 0.1-50 M SME<120U>
C113	87-010-546-080		CAP,E 0.33-50 M SME<220U>
C114	87-010-401-040		CAP,E 1-50 M SME
C115	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C117	87-010-320-080		C-CAP,S 68P-50 J CH
C118	87-010-312-080		C-CAP,S 15P-50 J CH
C120	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C121	87-010-178-080		C-CAP,S 1000P-50 K B
C161	87-010-408-040		CAP,E 47-50 M SME
C162	87-010-405-040		CAP,E 10-50 SME
C163	87-010-405-040		CAP,E 10-50 SME
C301	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C302	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C605	87-A10-224-040		CAP,E 10-10 M 7L BP
C606	87-A10-224-040		CAP,E 10-10 M 7L BP
C607	87-A10-224-040		CAP,E 10-10 M 7L BP
C608	87-A10-224-040		CAP,E 10-10 M 7L BP
FL101	86-AR4-670-010		FL,9-BT-153GK
LED301	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
LED302	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
LED303	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
LED304	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
LED305	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
LED306	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
LED307	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
LED308	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
LED309	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
LED310	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
LED311	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
LED312	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
LED313	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
LED314	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
LED315	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
LED316	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
LED317	87-001-123-080		LED,SLZ-981C-02H-AB-T2 RED
LED318	87-001-123-080		LED,SLZ-981C-02H-AB-T2 RED
LED319	87-001-123-080		LED,SLZ-981C-02H-AB-T2 RED
LED320	87-001-123-080		LED,SLZ-981C-02H-AB-T2 RED
LED321	87-001-123-080		LED,SLZ-981C-02H-AB-T2 RED
LED322	87-001-123-080		LED,SLZ-981C-02H-AB-T2 RED
LED323	87-001-123-080		LED,SLZ-981C-02H-AB-T2 RED
LED324	87-001-123-080		LED,SLZ-981C-02H-AB-T2 RED
S201	87-A90-095-080		SW,TACT EVQ11G04M
S202	87-A90-095-080		SW,TACT EVQ11G04M
S203	87-A90-095-080		SW,TACT EVQ11G04M
S204	87-A90-095-080		SW,TACT EVQ11G04M
S205	87-A90-095-080		SW,TACT EVQ11G04M
S206	87-A90-095-080		SW,TACT EVQ11G04M
S207	87-A90-095-080		SW,TACT EVQ11G04M
S208	87-A90-095-080		SW,TACT EVQ11G04M
S209	87-A90-095-080		SW,TACT EVQ11G04M
S210	87-A90-095-080		SW,TACT EVQ11G04M
S211	87-A90-095-080		SW,TACT EVQ11G04M
S212	87-A90-095-080		SW,TACT EVQ11G04M
S213	87-A90-095-080		SW,TACT EVQ11G04M
S214	87-A90-095-080		SW,TACT EVQ11G04M
S221	87-A90-095-080		SW,TACT EVQ11G04M
S222	87-A90-095-080		SW,TACT EVQ11G04M
S223	87-A90-095-080		SW,TACT EVQ11G04M
S224	87-A90-095-080		SW,TACT EVQ11G04M
S225	87-A90-095-080		SW,TACT EVQ11G04M
S226	87-A90-095-080		SW,TACT EVQ11G04M
S227	87-A90-095-080		SW,TACT EVQ11G04M
S228	87-A90-095-080		SW,TACT EVQ11G04M
S229	87-A90-095-080		SW,TACT EVQ11G04M
S230	87-A90-095-080		SW,TACT EVQ11G04M
S231	87-A90-095-080		SW,TACT EVQ11G04M
S232	87-A90-095-080		SW,TACT EVQ11G04M
S241	87-A90-095-080		SW,TACT EVQ11G04M
S242	87-A90-095-080		SW,TACT EVQ11G04M
S243	87-A90-095-080		SW,TACT EVQ11G04M
S244	87-A90-095-080		SW,TACT EVQ11G04M
S245	87-A90-095-080		SW,TACT EVQ11G04M
S246	87-A90-095-080		SW,TACT EVQ11G04M
S247	87-A90-095-080		SW,TACT EVQ11G04M
S248	87-A90-095-080		SW,TACT EVQ11G04M
S249	87-A90-095-080		SW,TACT EVQ11G04M
S250	87-A90-095-080		SW,TACT EVQ11G04M
VR601	86-AR4-653-010		VR,RTRY 100K3BMX1 1 H
X101	87-A70-070-080		VIB,CER 5.76MHZ CRHR

FRONT-2 C.B

C601	87-010-384-040		CAP,E 100-25 SME
C602	87-010-263-040		CAP,E 100-10 M SME
C603	87-015-692-040		CAP,E 0.22-50 M 7L SRA
C604	87-015-692-040		CAP,E 0.22-50 M 7L SRA
C609	87-012-154-080		C-CAP,S 150P-50 J CH GRM
C610	87-012-153-080		C-CAP,S 120P-50 J CH GRM
C621	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C701	87-010-402-040		CAP,E 2.2-50 SME
C702	87-010-402-040		CAP,E 2.2-50 SME
C703	87-012-154-080		C-CAP,S 150P-50 J CH GRM
C704	87-012-154-080		C-CAP,S 150P-50 J CH GRM
C705	87-016-460-080		C-CAP,S 0.22-16 K B
C706	87-016-460-080		C-CAP,S 0.22-16 K B
C707	87-010-182-080		C-CAP,S 2200P-50 K B
C708	87-010-182-080		C-CAP,S 2200P-50 K B
C709	87-010-597-080		C-CAP,S 0.056-16 K R
C710	87-010-597-080		C-CAP,S 0.056-16 K R

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C711	87-016-460-080		C-CAP,S 0.22-16 K B
C712	87-016-460-080		C-CAP,S 0.22-16 K B
C713	87-016-462-080		C-CAP,S 1-16 Z F
C714	87-010-260-080		CAP,E 47-25 SME
C715	87-010-405-080		CAP,E 10-50 M SME
C716	87-010-260-080		CAP,E 47-25 SME
C717	87-016-081-080		C-CAP,S 0.1-16 K R
C718	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
MVR601	86-AR4-669-010		VR,MOT 50KBX4 1 H
SPEAKER C.B			
C251	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C252	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C253	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C254	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C255	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C256	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C257	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C258	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C351	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C352	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C353	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C354	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
J201	87-A60-244-010		JACK,PIN 1P BLK W/O SW
J202	87-A60-199-010		TERMINAL,SP 8P CJ-9034-07 V0
J303	87-A60-200-110		TERMINAL,SP 6P CJ-9033-21-3 V0
L201	87-003-383-010		COIL,1UH K
L202	87-003-383-010		COIL,1UH K
L203	87-003-383-010		COIL,1UH K
L204	87-003-383-010		COIL,1UH K
L301	87-003-383-010		COIL,1UH K
L302	87-003-383-010		COIL,1UH K
S101	86-SP8-611-010		SW,SL 1-1-2
W201	86-AR4-686-110		F-CABLE,8P 2.5 500MM
W301	86-AR4-642-110		F-CABLE,4P 2.5 300MM
PRO C.B			
C1	87-010-405-040		CAP,E 10-50 M SME
C2	87-010-405-040		CAP,E 10-50 M SME
C3	87-010-405-040		CAP,E 10-50 M SME
C4	87-010-260-040		CAP,E 47-25 SME
C5	87-010-405-040		CAP,E 10-50 M SME
C6	87-016-081-080		C-CAP,S 0.1-16 K R
C7	87-010-401-040		CAP,E 1-50 M SME
C8	87-010-318-080		C-CAP,S 47P-50 J CH
C9	87-010-318-080		C-CAP,S 47P-50 J CH
C10	87-012-368-080		C-CAP,S 0.1-50 Z F
C11	87-010-263-040		CAP,E 100-10 M SME
C12	87-016-456-040		CAP,E 22-16 M SME
C22	87-016-081-080		C-CAP,S 0.1-16 K R
C23	87-016-081-080		C-CAP,S 0.1-16 K R
C24	87-016-081-080		C-CAP,S 0.1-16 K R
C25	87-012-140-080		C-CAP,S 470P-50 J CH
C27	87-010-401-040		CAP,E 1-50 M SME
C28	87-010-177-080		C-CAP,S 820P-50 J SL
C31	87-A10-229-080		C-CAP,S 0.68-10 K W5R
C32	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB
C33	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB
C34	87-010-404-040		CAP,E 4.7-50 SME
C35	87-010-404-040		CAP,E 4.7-50 SME
C36	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB
C37	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB
C38	87-016-081-080		C-CAP,S 0.1-16 K R
C41	87-016-081-080		C-CAP,S 0.1-16 K R
C42	87-016-081-080		C-CAP,S 0.1-16 K R
C45	87-016-081-080		C-CAP,S 0.1-16 K R
C47	87-010-176-080		C-CAP,S 680P-50 J SL
C49	87-010-176-080		C-CAP,S 680P-50 J SL

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C52	87-016-456-040		CAP,E 22-16 M LLA
C53	87-016-251-040		CAP,E 220-16 M SMG<220U>
C54	87-010-405-080		CAP,E 10-50 M SME
C57	87-010-405-080		CAP,E 10-50 M SME
C58	87-010-405-080		CAP,E 10-50 M SME
C61	87-010-384-040		CAP,E 100-25 SME
C62	87-012-368-080		C-CAP,S 0.1-50 Z F
C63	87-010-315-080		C-CAP,S 27P-50 CH
C64	87-010-315-080		C-CAP,S 27P-50 CH
C65	87-010-315-080		C-CAP,S 27P-50 CH
C112	87-010-382-080		CAP,E 22-25 M SME
C114	87-010-384-080		CAP,E 100-25 M SME
C115	87-012-140-080		C-CAP,S 470P-50 J CH
C116	87-010-263-080		CAP,E 100-10 SME
C117	87-010-235-080		CAP,E 470-16 SME
C118	87-010-235-080		CAP,E 470-16 SME
C119	87-010-407-080		CAP,E 33-50 SME
C120	87-010-407-080		CAP,E 33-50 SME
C121	87-010-408-080		CAP,E 47-50 SME
C122	87-010-263-080		CAP,E 100-10 SME
C123	87-010-112-040		CAP,E 100-16 SME<220U>
C123	87-010-404-040		CAP,E 4.7-50 SME<120U>
L1	87-005-481-080		COIL,47UH J FLR50
R27	87-025-407-080		RES,M/F 100K-1/8W F
⚠R144	87-029-060-010		RES,FUSE 33-1/4W J
RY201	87-A90-143-010		RELAY, DG12D2-OS(M)<220U>
RY202	87-A90-143-010		RELAY, DG12D2-OS(M)<220U>
AC1 C.B			
⚠	87-050-053-010		AC CORD ASSY,U-2
⚠	87-085-189-010		BUSHING,AC CORD(U) CM-22C
⚠ F106	87-035-493-010		FUSE,8A 125V T 237<120U>
⚠ F106	87-035-494-010		FUSE,10A 125V T 237<220U>
⚠ F107	87-035-493-010		FUSE,8A 125V T 237<120U>
⚠ F107	87-035-494-010		FUSE,10A 125V T 237<220U>
⚠ FC101	87-033-147-010		FUSE CLAMP,MT-20
⚠ FC102	87-033-147-010		FUSE CLAMP,MT-20
⚠ FC103	87-033-147-010		FUSE CLAMP,MT-20
⚠ FC104	87-033-147-010		FUSE CLAMP,MT-20
⚠ P1	87-A60-317-010		TERMINAL, 1P MSC
⚠ P2	87-A60-317-010		TERMINAL, 1P MSC
⚠ PT101	87-AR6-662-010		PT,U EI96-70 7AR-6<220U>
⚠ PT101	87-AR7-662-010		PT,U EI85-58 7AR-7<120U>
AC2 C.B			
⚠ PR11	87-026-691-080		FUSE,10A 125V 251
⚠ PR12	87-026-691-080		FUSE,10A 125V 251
⚠ PR13	87-026-691-080		FUSE,10A 125V 251
⚠ PR14	87-026-691-080		FUSE,10A 125V 251
⚠ PR15	87-026-691-080		FUSE,10A 125V 251
⚠ PR16	87-026-691-080		FUSE,10A 125V 251
RY101	87-A90-454-010		RELAY,12V DJ12D2-O(M)
RY102	87-A90-454-010		RELAY,12V DJ12D2-O(M)

TRANSISTOR ILLUSTRATION

E C B

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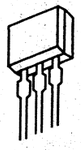
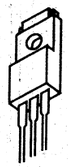
2SC3266
C2N5401
CSD655
KTC3198



E C B

2SA1175
DTA114YS



E C B

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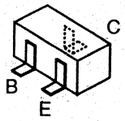

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2SA1037
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2SC2412
2SC2714
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2SD2114
CMBT5551
CSD1306E
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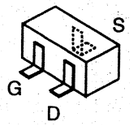
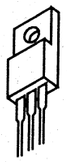
UN221E

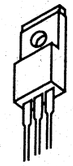


2SK543



G D S

2SK2723



B C E

FN1016
FP1016

○ チップ抵抗部品コード / CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding

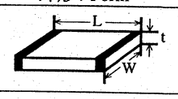
8 8 – □ □ □ □ □ □

A
抵抗部品コード
Resistor Code

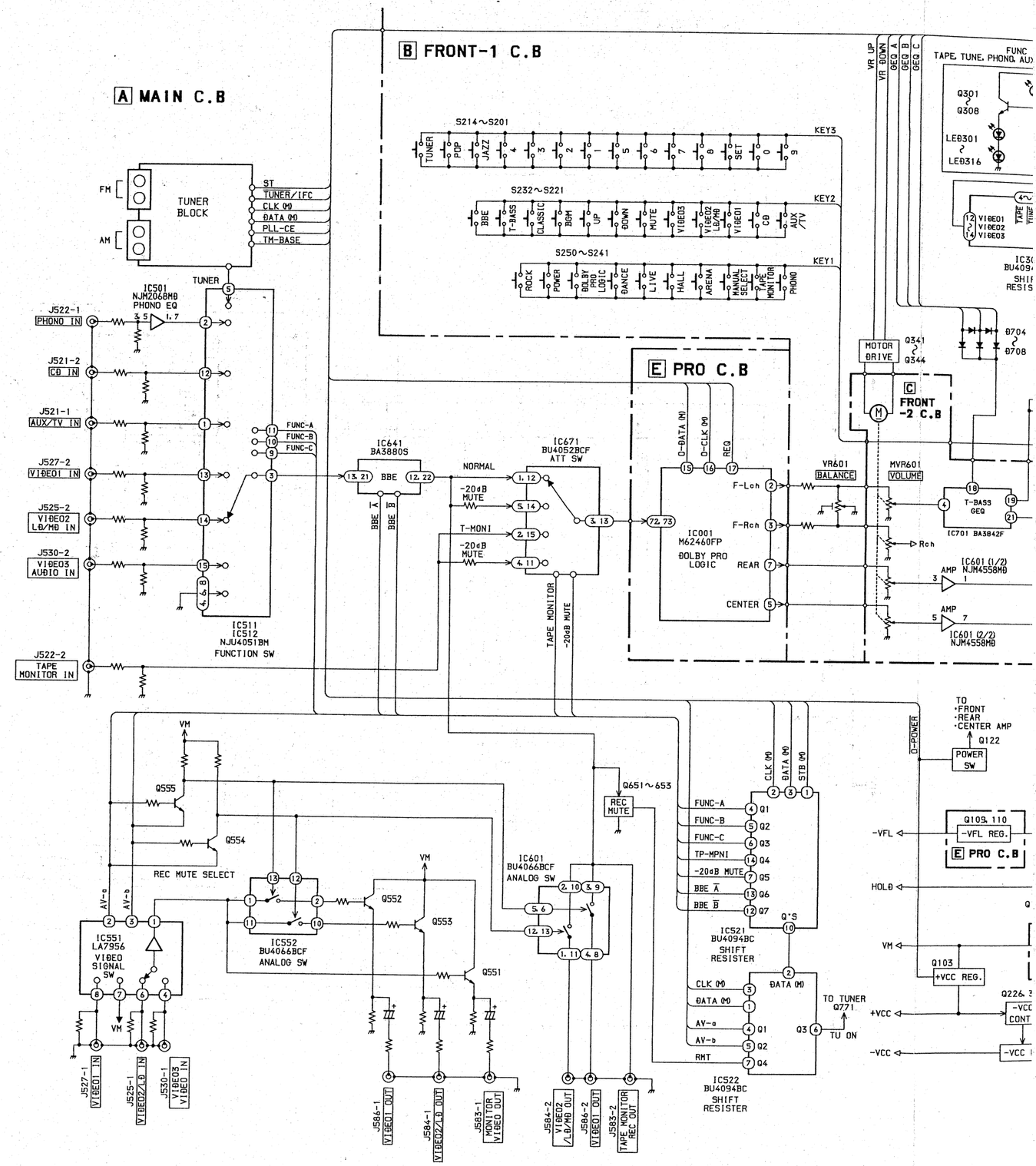
桁表示
Figure

抵抗値
Value of resistor

チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法 / Diamensions (mm) 外形 / Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1608	5%	CJ		1.6	0.8	0.45	108
1/10W	2125	5%	CJ		2	1.25	0.45	118
1/8W	3216	5%	CJ		3.2	1.6	0.55	128

BLOCK DIAGRAM



BLOCK DIAGRAM

S
D
K543

A MAIN C.B
B FRONT-1 C.B
C FRONT -2 C.B
D SPEAKER C.B
E PRO C.B
F AC1 C.B
G AC2 C.B

TUNER BLOCK
FM
AM
ST
TUNER/IFC
CLK (M)
DATA (M)
PLL-CE
TM-BASE
TUNER

S214~S201 KEY3
TUNER POP JAZZ 4 3 2 1 5 6 7 8 SET 0 9

S232~S221 KEY2
BBE T-BASS CLASSIC BGM UP DOWN MUTE VIDEO3 VIDEO2 LD/MD VIDEO1 CD AUX /TV

S250~S241 KEY1
ROCK POWER DOLBY PRO LOGIC DANCE LIVE HALL ARENA MANUAL SELECT TAPE MONITOR PHONO

FUNC LED
TAPE, TUNE, PHONO, AUX/TV, CD, VIDEO1~3
VM
Q301 ~ Q308
LED317 ~ LED324
Q103
LED301 ~ LED316
4~7, 11
TAPE TUNE PHONO MD/AUX CD
12 VIDEO1
13 VIDEO2
14 VIDEO3
STB 1
CLK 3
DATA 2
IC301
BU4094BCF
SHIFT RESISTER

VR UP
VR DOWN
GEQ A
GEQ B
GEQ C
REQ

FL101 (DISPLAY)
FL
P1 ~ 23
G1 ~ 9
-VFL
Q161
AM10K
-VFL VDD
44 D-PLL CE
63 D-BSP CE
62 D-A0
61 D-EOM
60 D-RBS
59 D-SW SCAN
58 P1
43 ~ 57 P2 ~ P16
42 -VP
41 VBB2

65 GEQ A
66 GEQ B
67 GEQ C
68 VR UP
69 VR DOWN
70 D-STB (F)
71 D-CLK (F)
72 D-DATA (F)
73 VSS
74 I-TM-BASE
75 T-BASS A
76 T-BASS B
77 D-MUTE
80 D-CLK SHIFT

IC101
LC864640W-5E85
CONTROLLER
P17 ~ P23
25
40
G1 ~ G9

1 D-CS-CE
2 D-STB (M)
3 D-DATA (M)
4 D-CLK (M)
5 D-POWER
6 HOLD
7 RESET
8 I-RBS DATA
9 I-TUNE/IFC
10 VSS1
11 CF1
12 CF2
13 VDD1
14 KEY1
15 KEY2
16 KEY3
17 I-STEREO
18 I-SYNC-DET
19 NC
20 I-MIC
21 I-SIG
22 I-RBS-CLK
23 I-RMC
24 VDD

RMC
IC102
GP1U281X
(REMOTE SENSOR)

Q102
HOLD → RESET
X101
5.76MHz
OSC

ON
OFF

MOTOR DRIVE
Q341
Q344
M

Ø704
Ø708

IC501
NJM2068MB
PHONO EQ
J522-1 PHONO IN
J521-2 CD IN
J521-1 AUX/TV IN
J527-2 VIDEO1 IN
J525-2 VIDEO2 LD/MD IN
J530-2 VIDEO3 AUDIO IN
J522-2 TAPE MONITOR IN
FUNC-A
FUNC-B
FUNC-C
IC511
IC512
NJU4051BM
FUNCTION SW

IC641
BA3880S
BBE
BBE A
BBE B

IC671
BU4052BCF
ATT SW
NORMAL
-20dB MUTE
T-MONI
-20dB MUTE
TAPE MONITOR
-20dB MUTE

IC001
M62460FP
DOLBY PRO LOGIC
D-DATA (M)
D-CLK (M)
REQ
F-Lch
F-Rch
REAR
CENTER

VR601
BALANCE
MVR601
VOLUME
Rch
IC701
BA3842F
T-BASS
GEQ

Q201 MUTE
Q203, 205, 207, 209, 211, 213, 233, 235
Q302 MUTE
Q304, 306, 308, 310, 312, 314, 334, 336
Q301 MUTE
Q303, 305, 307, 309, 311, 313, 333, 335
IC601 (1/2) NJM4558MB
IC601 (2/2) NJM4558MB
AMP

J202 (1/2) FRONT SPEAKERS A
J202 (2/2) FRONT SPEAKERS B
J201 SUPER WOOFER
J261 PHONES
J303 (1/2) SURROUND SPEAKERS
J303 (2/2) CENTER SPEAKER

TO
·FRONT
·REAR
·CENTER AMP
Q122
POWER SW
D-POWER

TO
·FRONT
·REAR
·CENTER ANP
-Vp IN
-Vp IN
-Vp OUT
OVER CURRENT DET
2 TIMES RECT.
DC DET
Q111, 112
AC DET
Q113 ~ 115
RESET

TO
·FRONT
·REAR
·CENTER AMP

Q105, 110
-VFL REG.
-VFL
HOLD
VM
Q105
15WCUT OFF
Q107, 108
VM·REG
Q103
+VCC REG.
+VCC
Q226, 326
-VCC CONT.
Q227, 327
-VCC REG
-VCC

RY101
RY102
PT101
Ø102
Ø101
(+VH)
(-VH)
(+VL)
(-VL)
FIL 1
FIL 2
AC1
AC120V
60Hz

Q555
Q554
REC MUTE SELECT
Q552
Q553
Q551
IC552
BU4066BCF
ANALOG SW
IC551
LA7956
VIDEO SIGNAL SW
AV-a
AV-b
J527-1 VIDEO1 IN
J525-1 VIDEO2/LD IN
J530-1 VIDEO3 VIDEO IN

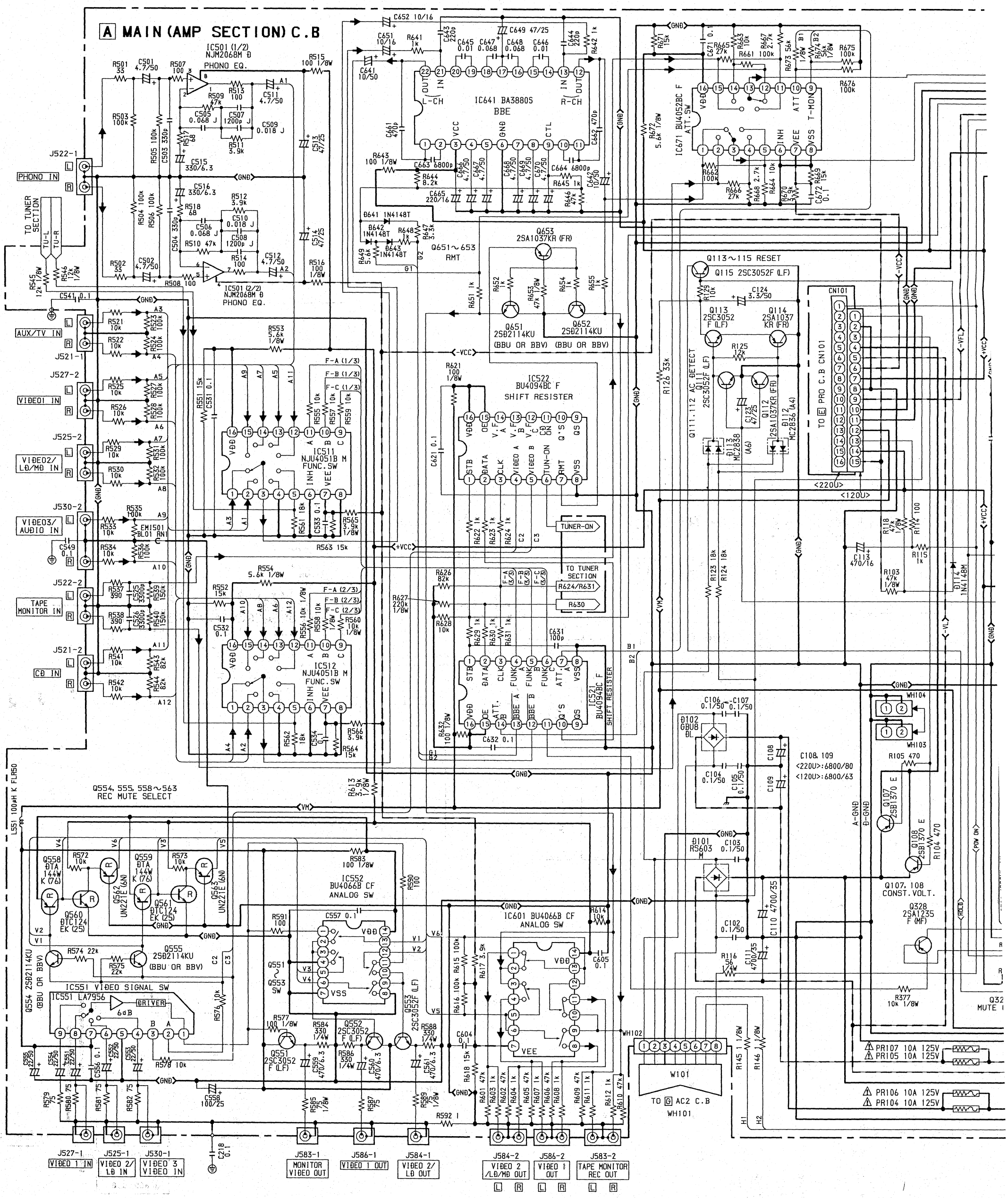
Q651 ~ 653
REC MUTE
IC601
BU4066BCF
ANALOG SW

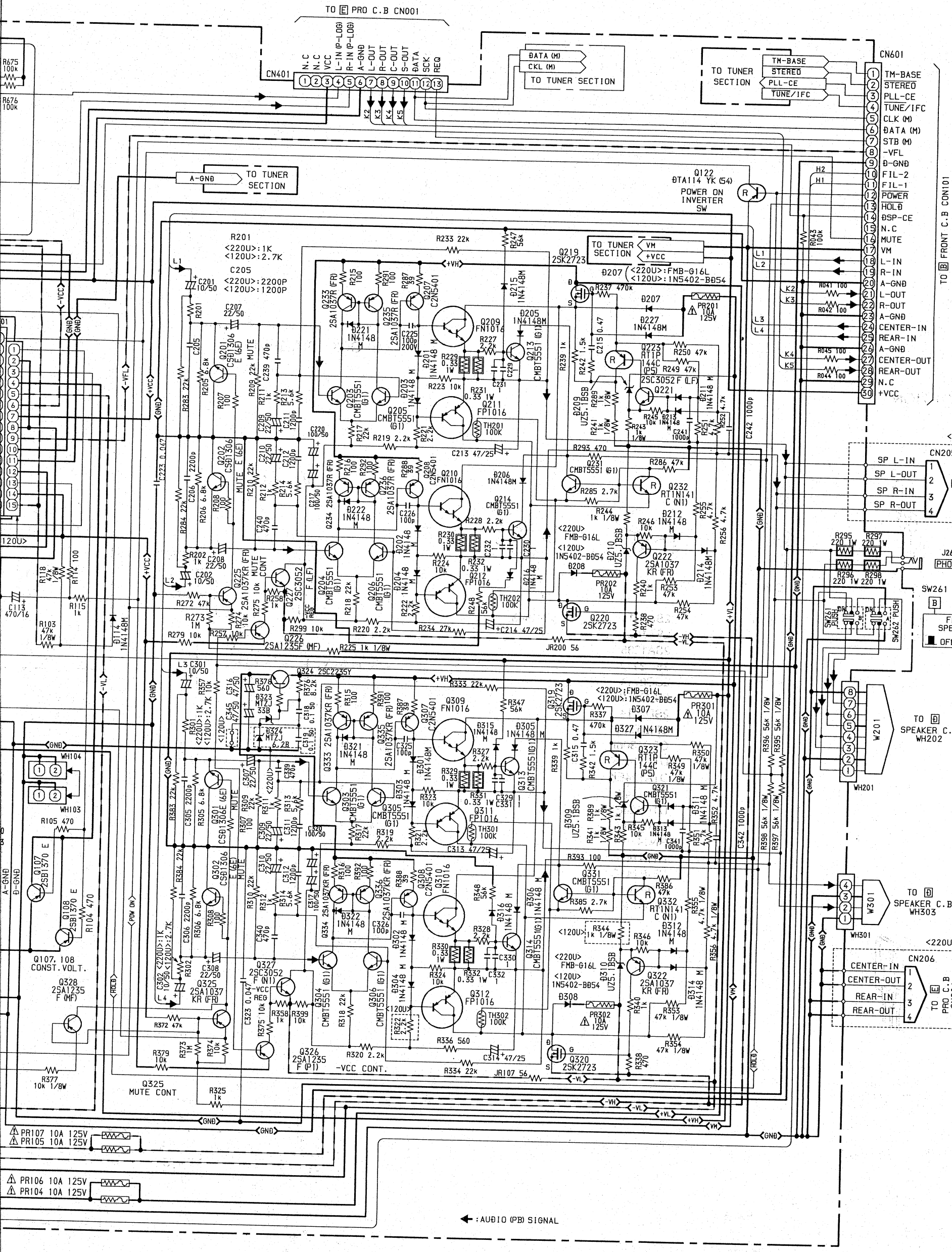
CLK (M)
DATA (M)
STB (M)
FUNC-A Q1
FUNC-B Q2
FUNC-C Q3
TP-MPNI Q4
-20dB MUTE Q5
BBE A Q6
BBE B Q7
Q'S
IC521
BU4094BC
SHIFT RESISTER
DATA (M)
AV-a Q1
AV-b Q2
RMT Q4
Q3
TO TUNER Q771
TU ON
IC522
BU4094BC
SHIFT RESISTER

J586-1 VIDEO1 OUT
J584-1 VIDEO2/LD OUT
J583-1 MONITOR VIDEO OUT
J584-2 VIDEO2 /LD/MD OUT
J586-2 VIDEO1 OUT
J583-2 TAPE MONITOR REC OUT

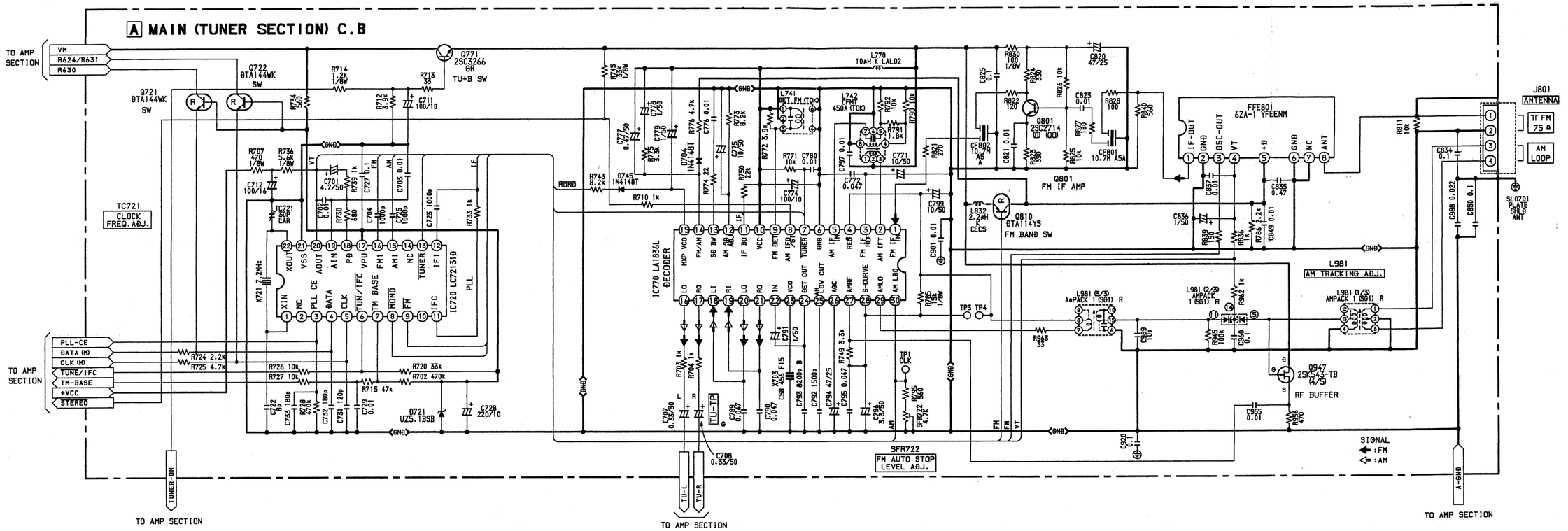
抵抗コード　：A Resistor Code : A
108
118
128

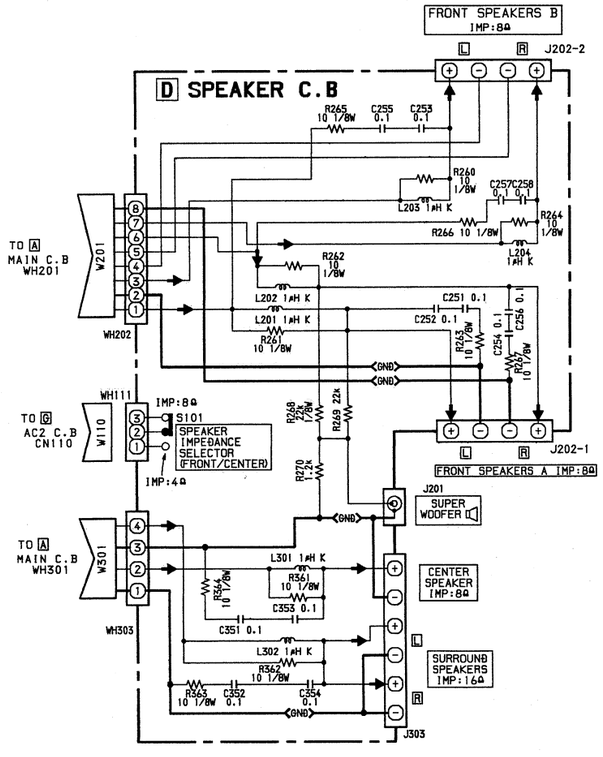
HEMATIC DIAGRAM – 1 (MAIN 1/2)

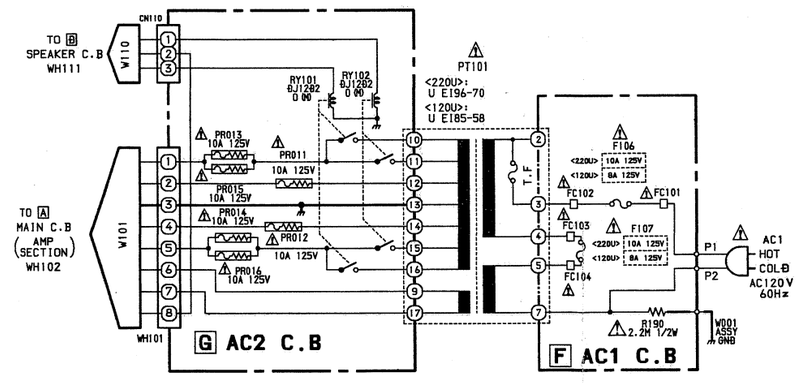



TO E PRO C.B CN001
CN401
N.C
N.C
VCC
L-IN (P-LOG)
R-IN (P-LOG)
A-GND
L-OUT
R-OUT
C-OUT
S-OUT
DATA
SCK
REQ
DATA (M)
CKL (M)
TO TUNER SECTION
TO TUNER SECTION
TM-BASE
STEREO
PLL-CE
TUNE/IFC
CN601
TM-BASE
STEREO
PLL-CE
TUNE/IFC
CLK (M)
DATA (M)
STB (M)
-VFL
D-GND
FIL-2
FIL-1
POWER
HOLD
DSP-CE
N.C
MUTE
VM
L-IN
R-IN
A-GND
L-OUT
R-OUT
A-GND
CENTER-IN
REAR-IN
A-GND
CENTER-OUT
REAR-OUT
N.C
+VCC
TO B FRONT C.B CON101
A-GND
TO TUNER SECTION
Q122
DTA114 YK (54)
POWER ON INVERTER SW
TO TUNER SECTION
VM
+VCC
Q219
2SK2723
D207 (<220U>:FMB-G16L <120U>:1N5402-BD54
R201
<220U>:1K
<120U>:2.7K
C205
<220U>:2200P
<120U>:1200P
R233 22k
R247 56k
+VH
R237 470k
D207
PR201 10A 125V
D227 1N4148M
Q223 RT1P 144C (P5)
R250 47k
R249 47k
2SC3052 F (LF)
Q221
R245 10k
R213 1N4148 M
R241 1/8W
R243 1k 1/8W
R251 4.7k
R252 4.7k
C241 1000p
C242 1000p
D209 UZ5.1BSB
D211 1N4148 M
R239 1k
R242 1.5k
C215 0.47
R293 470
Q231 CMBT5551 (G1)
R285 2.7k
R286 47k
Q232 RT1N141 C (N1)
R244 1k 1/8W
R246 10k
D212 1N4148 M
R255 4.7k
R256 4.7k
<220U>
CN205
SP L-IN
SP L-OUT
SP R-IN
SP R-OUT
TO E PRO C.B CN203
<220U>
FMB-G16L
<120U>
1N5402-BD54
D210 UZ5.1BSB
D208
PR202 10A 125V
Q222 2SA1037 KR (FR)
R240 1k
R253 47k
R254 47k
D214 1N4148M
Q220 2SK2723
R238 470
R295 220 1W
R297 220 1W
R296 220 1W
R298 220 1W
J261
PHONES
SW261
SW262
SW261 PUSH
SW262 PUSH
FRONT SPEAKERS
OFF
ON
R043 100k
R041 100
R042 100
R045 100
R044 100
TO D SPEAKER C.B WH202
W201
WH201
TO D SPEAKER C.B WH303
W301
WH301
<220U>
CN206
CENTER-IN
CENTER-OUT
REAR-IN
REAR-OUT
TO E PRO C.B CN204
R201
<220U>:1K
<120U>:2.7K
C205
<220U>:2200P
<120U>:1200P
C201 10/50
C207 22/50
C202 10/50
C208 22/50
C209 22/50
C210 22/50
C211 1200p
C212 1200p
C213 47/25
C214 47/25
C220 100/50
C217 100/50
C223 0.047
C226 100p
C225 100p 200V
C229 1
C230 1
C231 1
C232 1
R201 1k
R202 1k
R205 6.8k
R206 6.8k
R207 100
R208 100
R209 22k
R210 22k
R211 1k
R212 1k
R213 5.6k
R214 5.6k
R215 100
R216 100
R217 22k
R218 22k
R219 2.2k
R220 2.2k
R221 2.2k
R222 2.2k
R223 10k
R224 10k
R227 2.2k
R228 2.2k
R229 0.33 1W
R230 0.33 1W
R231 0.33 1W
R232 0.33 1W
R234 27k
R248 56k
R257 10k
R258 1k
R272 47k
R273 1M
R274 10k
R275 10k
R279 10k
R283 22k
R284 22k
R285 2.7k
R287 39
R288 39
R291 100
R292 100
R299 10k
R220 2.2k
JR200 56
R225 1k 1/8W
D201 1N4148 M
D202 1N4148 M
D203 1N4148 M
D204 1N4148 M
D205 1N4148M
D206 1N4148M
D215 1N4148M
D216 1N4148 M
D221 1N4148 M
D222 1N4148 M
Q201 C5B1306 E (6E)
Q202 C5B1306 E (6E)
Q203 CMBT5551 (G1)
Q204 CMBT5551 (G1)
Q205 CMBT5551 (G1)
Q206 CMBT5551 (G1)
Q207 C2N5401
Q208 C2N5401
Q209 FN1016
Q210 FN1016
Q211 FP1016
Q212 FP1016
TH201 100K
TH202 100K
Q225 2SA1037KR (FR) MUTE CONT
Q226 2SA1235F (MF)
Q227 2SC3052 F (LF)
R103 47k 1/8W
R114 100
R115 1k
R118 47k 1/8W
C114 470/16
D114 1N4148M
L1
L2
L3
L4
K2
K3
K4
K5
R675 100k
R676 100k
A-GND
-VCC
GND
-VFL
+VCC
-VL
+VL
-VH
+VH
HOLD
PDW ON
L3 C301 10/50
Q324 2SC2235Y
R378 560
R376 8.2k
D323 MTZJ 33B
D324 MTZJ 6.2B
C316 47/50
C345 47/50
C318 0.15
C319 0.15
<120U>
R301
<220U>:1K
<120U>:2.7K
R357 10k
R333 22k
R347 56k
Q319 2SK2723
R337 470k
D307
D327 1N4148M
PR301 10A 125V
Q309 FN1016
Q307 C2N5401
D315 1N4148 M
D305 1N4148M
D321 1N4148 M
D301 1N4148 M
D303 1N4148 M
Q303 CMBT5551 (G1)
Q305 CMBT5551 (G1)
Q311 FP1016
TH301 100K
R327 2.2k
R329 0.33 1W
R331 0.33 1W
R323 10k
R321 2.2k
R319 2.2k
R339 1k
R315 100
R391 100
R387 39
C325 100p
C315 0.47
R342 1.5k
Q323 RT1P 144C (P5)
R350 47k
R349 47k 1/8W
R389 1k 1/8W
R341 1k 1/8W
R343 1k 1/8W
R345 10k
D313 1N4148 M
Q321 CMBT5551 (G1)
R352 4.7k
R351 4.7k
C341 1000p
C342 1000p
R396 56k 1/8W
R395 56k 1/8W
R398 56k 1/8W
R397 56k 1/8W
R393 100
Q331 CMBT5551 (G1)
R385 2.7k
R386 47k
Q332 RT1N141 C (N1)
R355 4.7k 1/8W
R356 4.7k 1/8W
R344 1k 1/8W
R346 10k
D312 1N4148 M
D310 UZ5.1BSB
D308
PR302 10A 125V
Q322 2SA1037 KR (FR)
R340 1k
R353 47k 1/8W
R354 47k 1/8W
D314 1N4148 M
Q320 2SK2723
R338 470
R336 560
C314 47/25
R334 22k
JR107 56
R330 0.33 1W
R328 2.2k
R332 0.33 1W
C330 1
C332 1
R324 10k
R322 2.2k 1W
D304 1N4148 M
D302 1N4148 M
Q304 CMBT5551 (G1)
Q306 CMBT5551 (G1)
Q312 FP1016
TH302 100K
R358 1k
R399 10k
R375 10k
R318 22k
R320 2.2k
Q326 2SA1235 F (P1)
-VCC CONT.
Q325 MUTE CONT
R325 1k
R379 10k
R373 1M
R374 10k
R372 47k
R377 10k 1/8W
Q328 2SA1235 F (MF)
Q325 2SA1037 KR (FR)
Q327 2SC3052 F (N1)
-VCC REG
C323 0.047
C308 22/50
C302 <220U>:1K <120U>:2.7K 10/50
R302
L4
WH104
WH103
R105 470
R104 470
Q107 2SB1370 E
Q108 2SB1370 E
Q107, 108 CONST. VOLT.
C305 2200p
C306 2200p
R305 6.8k
R306 6.8k
R307 100
R308 100
R309 22k
R310 22k
R311 1k
R312 1k
R313 5.6k
R314 5.6k
R383 22k
R384 22k
C307 22/50
C309 22/50
C310 22/50
C311 1200p
C312 1200p
C320 100/50
C317 100/50
C339 470p
C340 470p
Q301 C5B1306E (6E) MUTE
Q302 C5B1306 E (6E) MUTE
R316 100
R392 100
R388 39
Q336 2SA1037KR (FR)
Q308 C2N5401
Q310 FN1016
C326 100p
C327 100p
D322 1N4148 M
D302 1N4148 M
D306 1N4148 M
D316 1N4148 M
Q334 2SA1037KR (FR)
Q314 CMBT5551 (G1)
R348 56k
R328 2.2k
R330 0.33 1W
R332 0.33 1W
C330 1
C332 1
R324 10k
R322 2.2k 1W
D304 1N4148 M
Q304 CMBT5551 (G1)
Q306 CMBT5551 (G1)
Q312 FP1016
TH302 100K
R358 1k
R399 10k
R375 10k
R318 22k
R320 2.2k
Q326 2SA1235 F (P1)
-VCC CONT.
Q325 MUTE CONT
R325 1k
R379 10k
R373 1M
R374 10k
R372 47k
R377 10k 1/8W
Q328 2SA1235 F (MF)
Q325 2SA1037 KR (FR)
Q327 2SC3052 F (N1)
-VCC REG
C323 0.047
C308 22/50
C302 <220U>:1K <120U>:2.7K 10/50
R302
L4
WH104
WH103
R105 470
R104 470
Q107 2SB1370 E
Q108 2SB1370 E
Q107, 108 CONST. VOLT.
C305 2200p
C306 2200p
R305 6.8k
R306 6.8k
R307 100
R308 100
R309 22k
R310 22k
R311 1k
R312 1k
R313 5.6k
R314 5.6k
R383 22k
R384 22k
C307 22/50
C309 22/50
C310 22/50
C311 1200p
C312 1200p
C320 100/50
C317 100/50
C339 470p
C340 470p
Q301 C5B1306E (6E) MUTE
Q302 C5B1306 E (6E) MUTE
R316 100
R392 100
R388 39
Q336 2SA1037KR (FR)
Q308 C2N5401
Q310 FN1016
C326 100p
C327 100p
D322 1N4148 M
D302 1N4148 M
D306 1N4148 M
D316 1N4148 M
Q334 2SA1037KR (FR)
Q314 CMBT5551 (G1)
R348 56k
R328 2.2k
R330 0.33 1W
R332 0.33 1W
C330 1
C332 1
R324 10k
R322 2.2k 1W
D304 1N4148 M
Q304 CMBT5551 (G1)
Q306 CMBT5551 (G1)
Q312 FP1016
TH302 100K
R358 1k
R399 10k
R375 10k
R318 22k
R320 2.2k
Q326 2SA1235 F (P1)
-VCC CONT.
Q325 MUTE CONT
R325 1k
R379 10k
R373 1M
R374 10k
R372 47k
R377 10k 1/8W
Q328 2SA1235 F (MF)
Q325 2SA1037 KR (FR)
Q327 2SC3052 F (N1)
-VCC REG
C323 0.047
C308 22/50
C302 <220U>:1K <120U>:2.7K 10/50
R302
L4
PR107 10A 125V
PR105 10A 125V
PR106 10A 125V
PR104 10A 125V
: AUDIO (PB) SIGNAL

SCHEMATIC DIAGRAM – 2 (MAIN 2/2)







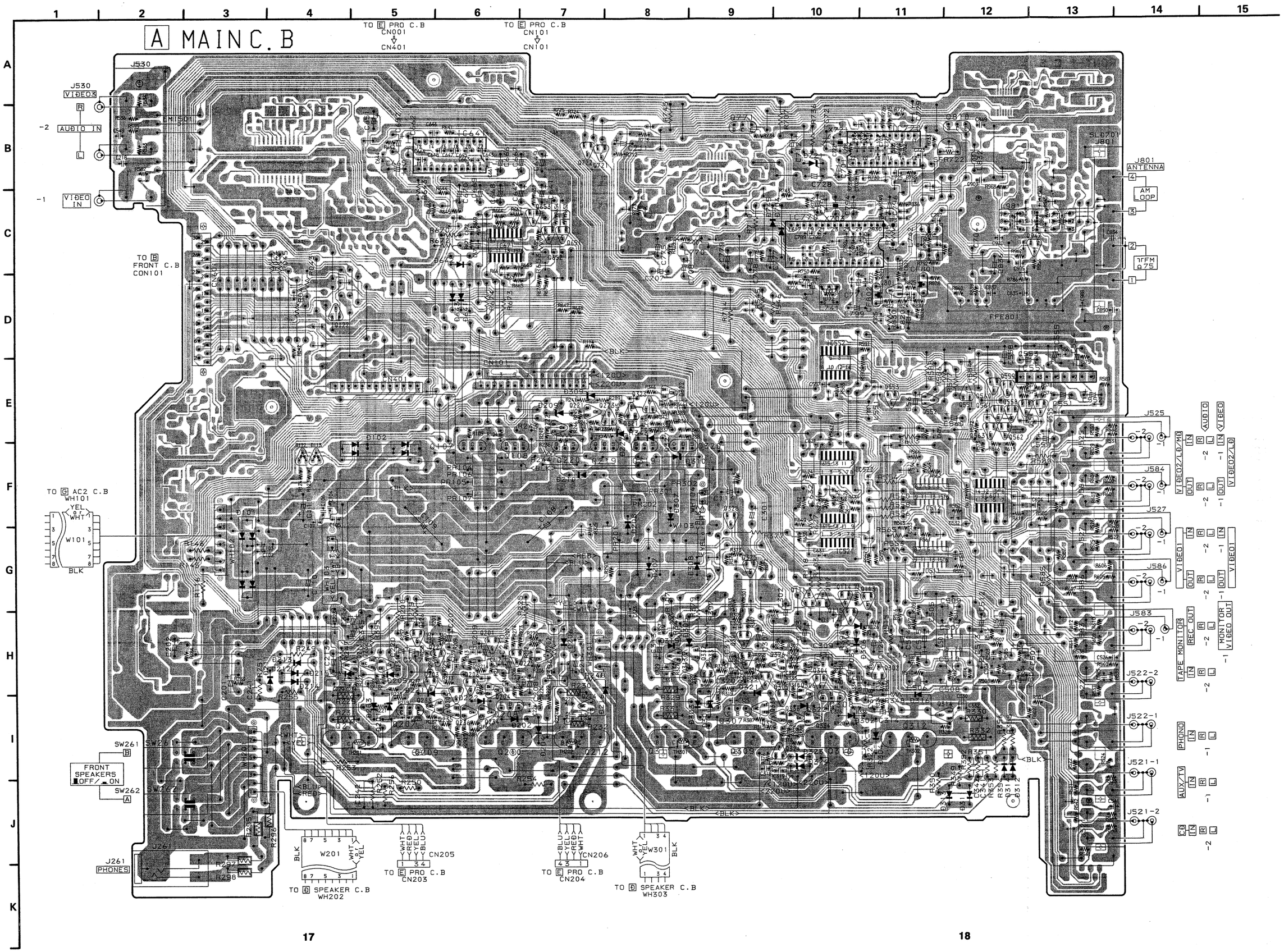
IC DESCRIPTION

IC, LC866448W-5E85

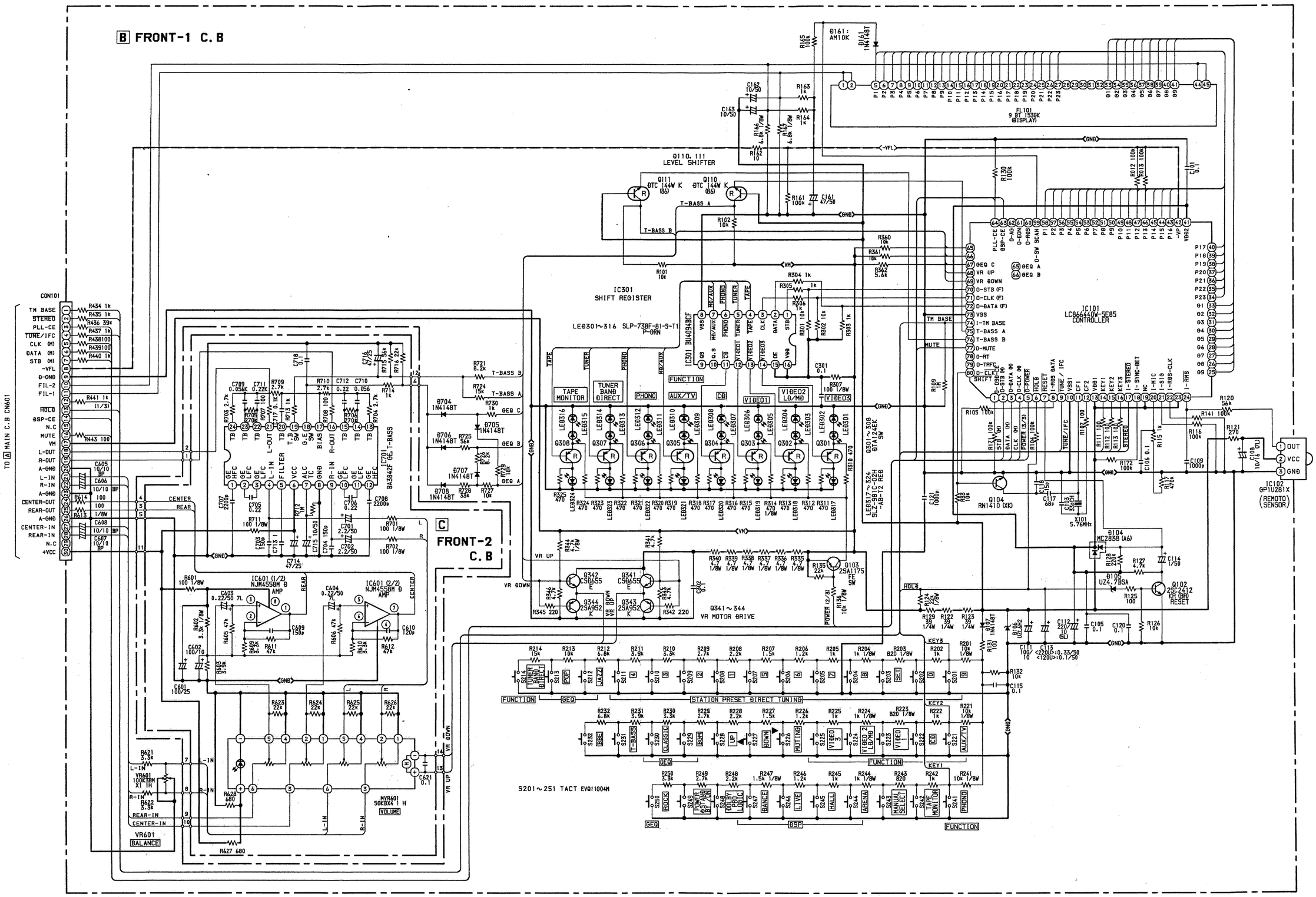
Pin No.	Pin Name	I/O	Description
1	O-OSD-CE	O	OSD data latch CE output.
2	O-STB(M)	O	Main shift register data latch strobe output.
3	O-DATA(M)	O	Main shift register data output.
4	O-CLK(M)	O	Main shift register clock output.
5	$\overline{\text{O-POWER}}$	O	System power supply ON/OFF output.
6	$\overline{\text{HOLD}}$	I	Power failure detected input " L" to stop clock and maintain memory.
7	$\overline{\text{RESET}}$	I	Reset input.
8	I-RDS DATA	I	RDS data input (TUNER).
9	$\overline{\text{I-TUNE/IFC}}$	I	Tuner $\overline{\text{SD}}$ detect input. IF count serial data input.
10	VSS1	—	GND.
11, 12	CF1, 2	—	5.7 MHz oscillator circuit.
13	VDD1	—	Power supply input.
14–16	I-KEY1–3	I	Key input. (A/D).
17	$\overline{\text{I-STEREO}}$	I	TUNER stereo signal input.
18	I-SYNC DET	I	VIDEO signal level input.
19	-	-	Not used.
20	I-MIC	I	Microphone input for auto VF display.
21	I-SIG	I	RDS signal input (TUNER).
22	I-RDS CLK	I	RDS clock input (TUNER).
23	-	-	Not used.
24	$\overline{\text{I-RMS}}$	I	System remote control signal input.
25–33	G9–G1	O	FL grid output G9 to G1.
34–40	P23–P17	O	FL segment output.
41	VDD2	—	Power supply input.
42	-VP	—	Power supply input for FL display. (-34.5 V)
43–54	P16–P5	O	FL segment output P16~P5.
55	P4	O	FL segment output P4, AM stereo, FM-WIDE mode data input to diode.
56	P3	O	FL segment output P3, RDS mode data input to diode.
57	P2	O	FL segment output P2, K-CON mode data input to diode.
58	P1	O	FL segment output 1, AM 10kHz step data input to diode.
59	O-SW SCAN	O	Switch cam timing output.
60	O-RDS	O	RDS LED turn output.
61	O-EON	O	EON LED turn output.
62	O-AG	O	AG LED turn output.
63	DSP-CE	O	DSP data latch strobe output.
64	PLL-CE	I/O	PLL IC chip enable.
65	GEQ A	O	GEQ control output.
66	GEQ B	O	GEQ control output.
67	GEQ-C	O	GEQ/T-BASS IC GEQ control output.
68	VR-UP	O	MVR motor control (up) output.
69	VR-DOWN	O	MVR motor control (down) output.

Pin No.	Pin Name	I/O	Description
70	O-STB(F)	O	Front shift register, data latch strobe output.
71	O-CLK(F)	O	Front shift register, data transfer clock output.
72	O-DATA(F)	O	Front shift register, data output.
73	VSS2	—	GND.
74	I-TM BASE	I	Reference clock input for timer watch.
75	T-BSS A	O	GEQ/T-BASS IC T-BASS control output.
76	T-BSS B	O	GEQ/T-BASS IC T-BASS control output.
77	O-MUTE	O	System mute output.
78	O-RT	O	RT LED turn output.
79	O-TRFC	O	TRFC LED turn output.
80	$\overline{\text{O-CLK SHIFT}}$	O	Micro clock shift output.

See the AV-X100/X200(S/M Cord No.09-967-142-10I)of the IC BLOCK DIAGRAM below.	
AV-X100/X200	AV-X120 /X220
LA1836	LA1836
BU4094BCF	BU4094BCF
LC72131	LC72131
BA3880S	BA3880S
BA3842F	BA3842F

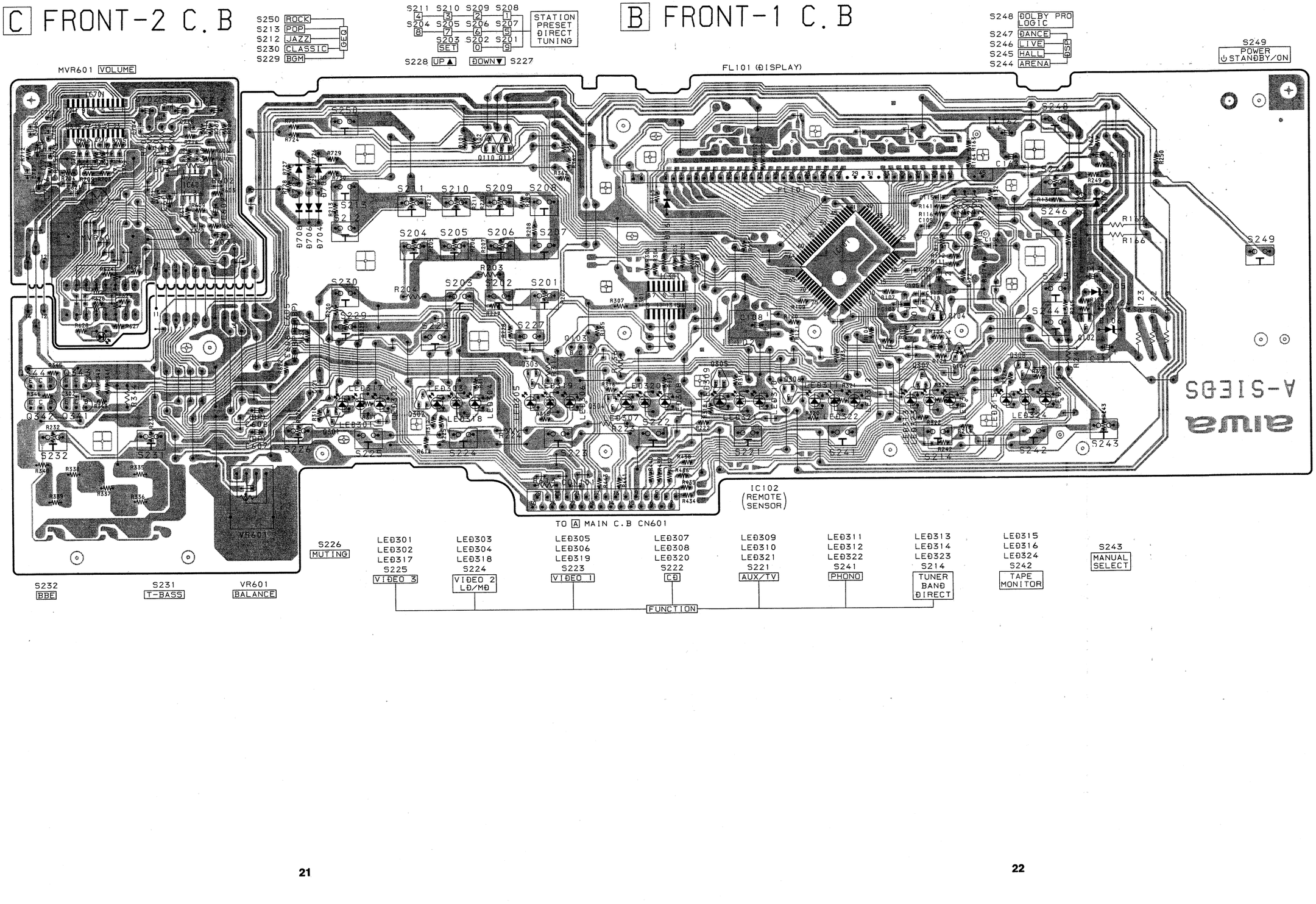

A MAINC.B
TO E PRO C.B CN001 ⇩ CN401
TO E PRO C.B CN101 ⇩ CN101
J530 VIDEO3
R
AUDIO IN
L
VIDEO IN
TO B FRONT C.B CON101
TO G AC2 C.B WH101
W101
BLK
SW261
FRONT SPEAKERS
OFF/ ON
SW262
J261
PHONES
W201
TO D SPEAKER C.B WH202
CN205
TO E PRO C.B CN203
CN206
TO E PRO C.B CN204
W301
TO D SPEAKER C.B WH303
J801 ANTENNA
AM LOOP
TFM
J525
J584
J527
J586
J583
J522-2
J522-1
J521-1
J521-2
VIDEO2/LD/MB
VIDEO1
TAPE MONITOR
REC OUT
MONITOR VIDEO OUT
PHONO
AUX/TV
CD
AUDIO
VIDEO
IN
OUT

SCHEMATIC DIAGRAM – 3 (FRONT)

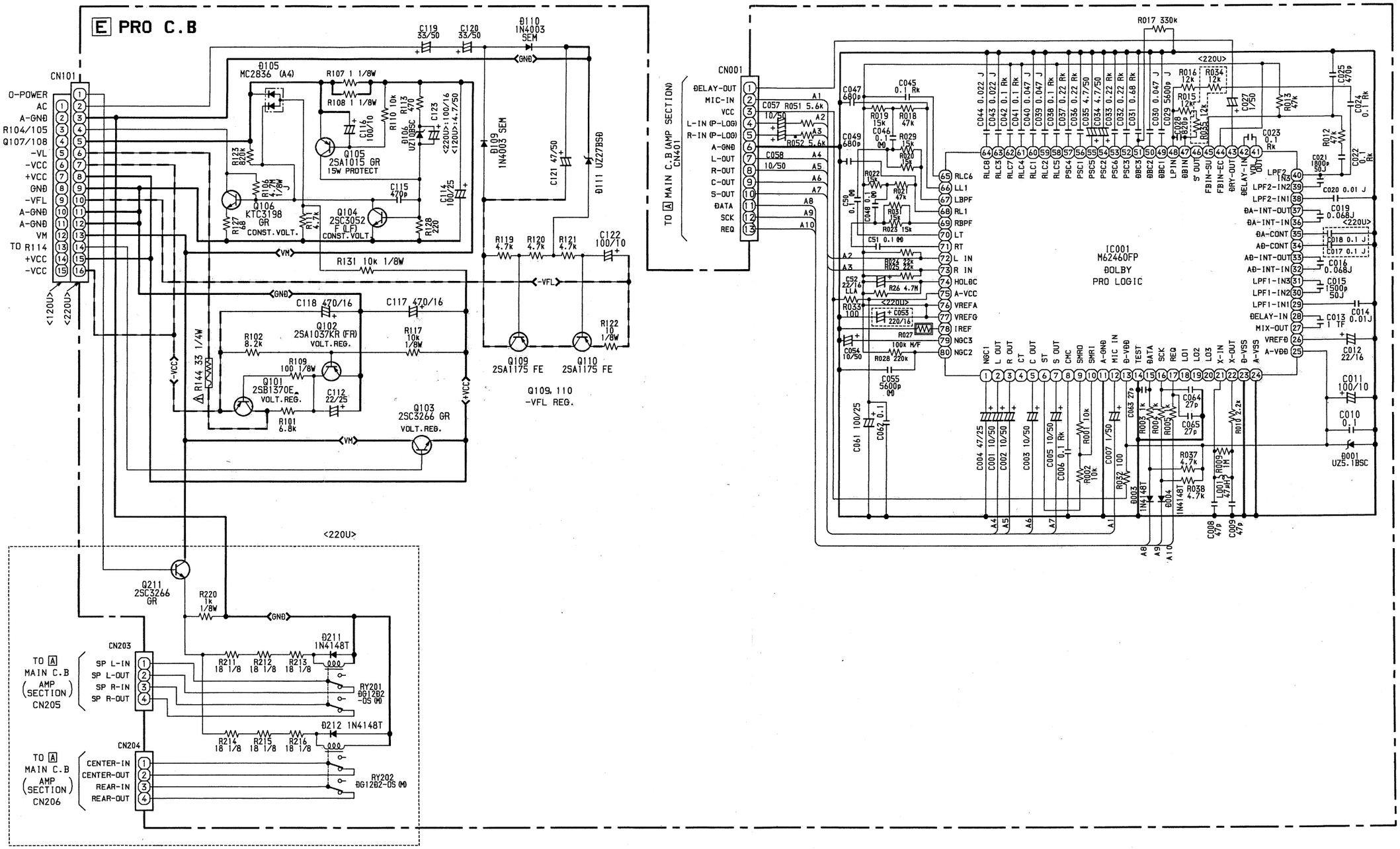


C FRONT-2 C.B

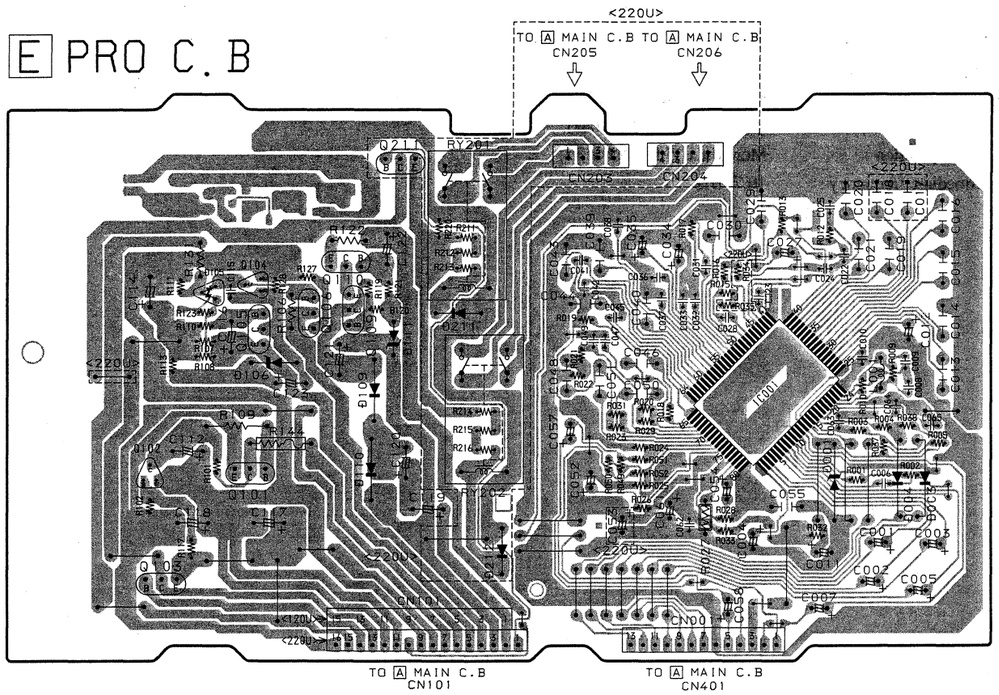
B FRONT-1 C.B



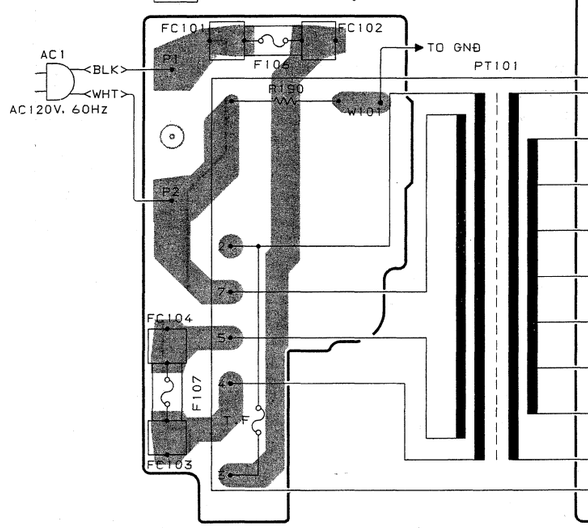
SCHEMATIC DIAGRAM – 4 (PRO)



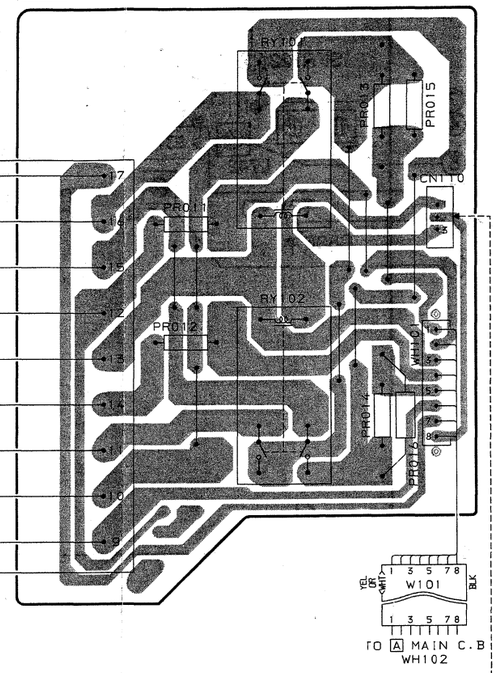
E PRO C.B



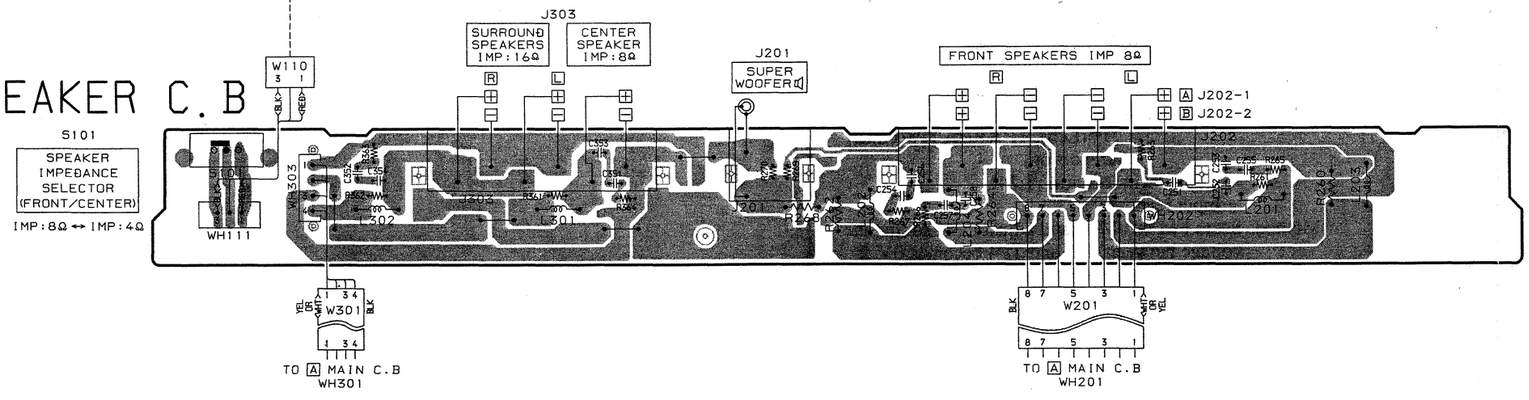
F AC1 C.B



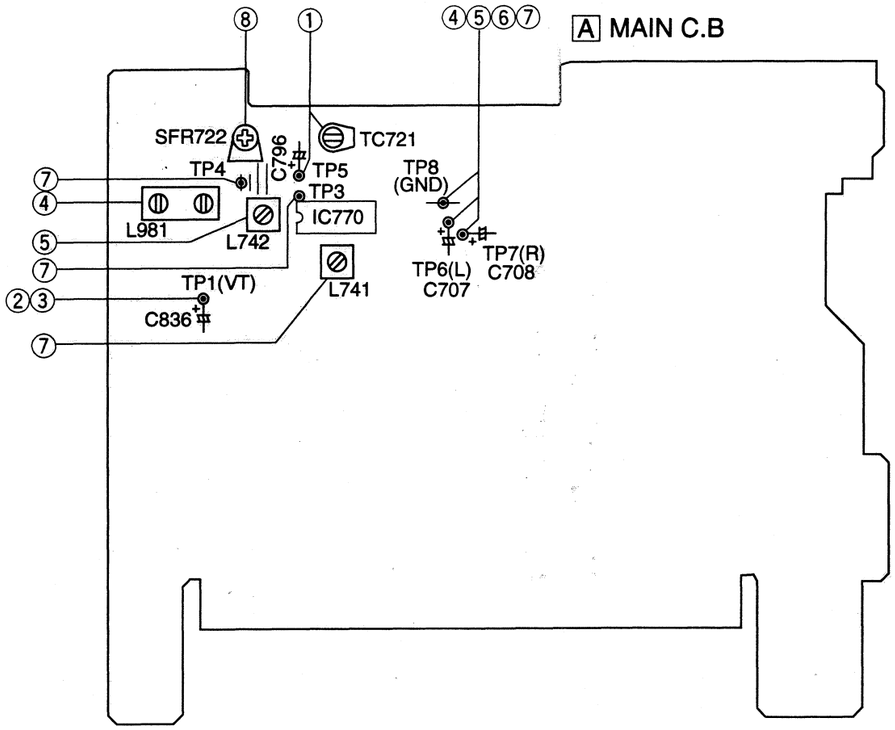
G AC2 C.B



Đ SPEAKER C.B



ADJUSTMENT



1. Clock Frequency Adjustment
   Settings: · Test point : TP5(CLK IC770 pin 30)
   · Adjustment location : TC721
   Method: Set to AM 1710kHz and adjust TC721 so that the test point becomes 2160kHz±0.01kHz.

2. AM VT Check
   Settings: · Test point : TP1(VT)
   Method: Set to AM 530kHz and check the test point is 1.1±0.20V.

3. FM VT Check
   Setting: · Test point : TP1(VT)
   Method: Set to FM 108.0MHz and check that the test point is 7.5±1.0V. Then set to FM 87.5MHz and check that the test point is 2.9±1.0V.

4. AM Tracking Adjustment
   Settings: · Test point : TP6(Lch), TP7(Rch),TP8(GND)
   · Adjustment location : L981
   Method: Set to AM 1000kHz and adjust L981 that the test point becomes maximum.

5. AM IF Adjustment
   Setting: · Test point : TP6(Lch), TP7(Rch),TP8(GND)
   L742 ..... 450kHz

6. FM Tracking Check
   Setting: · Test point : TP6(Lch), TP7(Rch),TP8(GND)
   Method: Set to FM 87.5MHz and 108.0MHz, and check that the test point is 4±4dB and 6±4dB.

7.DC Balance/MONO Distortion Adjustment
   Settings: · Test point : TP3,TP4 (DC Balance)
   TP6(Lch), TP7(Rch),TP8(GND)
   (Distortion)
   · Adjustment location : L741
   · Input level : 60dB
   Method: Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes 0V± 0.01V.
   Next check that the distortion is less than 1.3%

8. Auto Stop Level Adjustment
   Settings: · Adjustment location : SFR722
   · Input level : 20dB
   Method: Set to FM 98.0MHz and adjust voltage low (about 0.01V) by SFR722. After that voltage high (about 7.0V) out by 2dB down.

PRACTICAL SERVICE FIGURE

TUNER SECTION

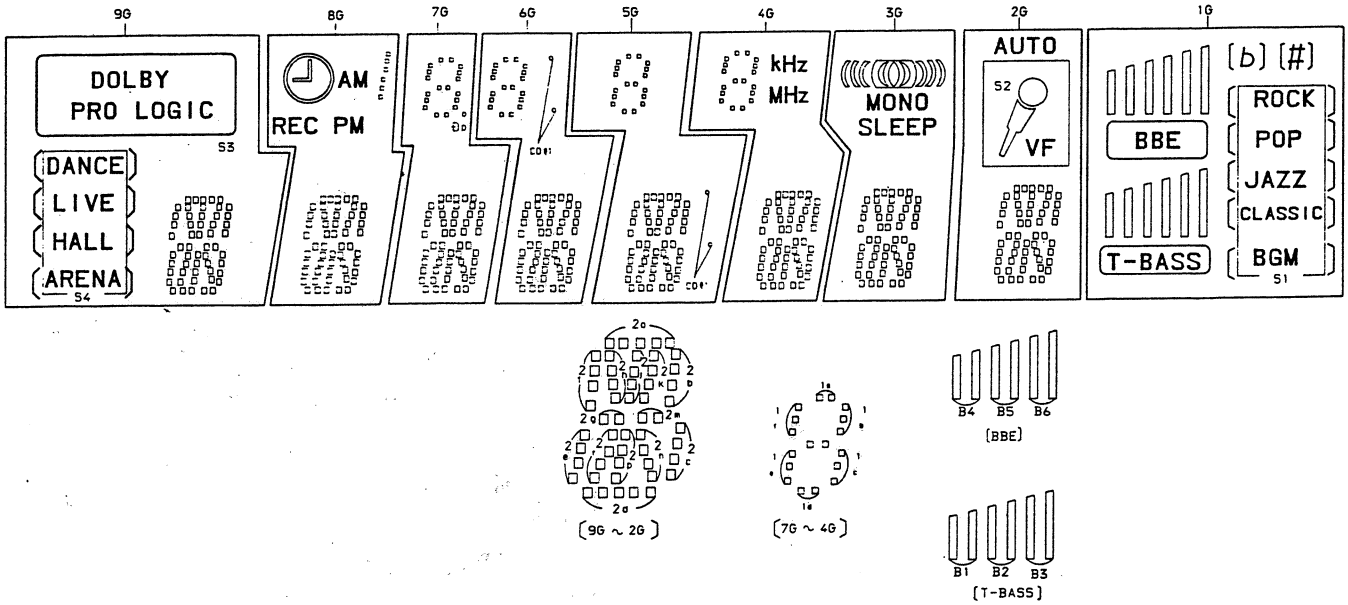
<FM SECTION>

IHF Sensitivity :	6dB±6dB
(THD 3%)	(87.5MHz/98.0MHz)
	8dB±6dB(108.0MHz)
S/N 50dB Quieting Sensitivity:	31dB±5dB
	(87.5/98.0/108.0MHz)
Signal to noise ratio :	More than 64dB(98.0MHz)
Distortion :	Less than 1.3%(98.0MHz)
Stereo separation :	More than 25dB(98.0MHz)
Intermediate frequency :	10.7MHz

<AM SECTION>

Sensitivity :	57dB±6dB(600kHz)
(S/N 20dB)	53dB±6dB(1000/1400kHz)
Distortion :	Less than 1.5%(1000kHz)
Auto stop level :	50dB±10dB(1000kHz)
Intermediate frequency :	450kHz

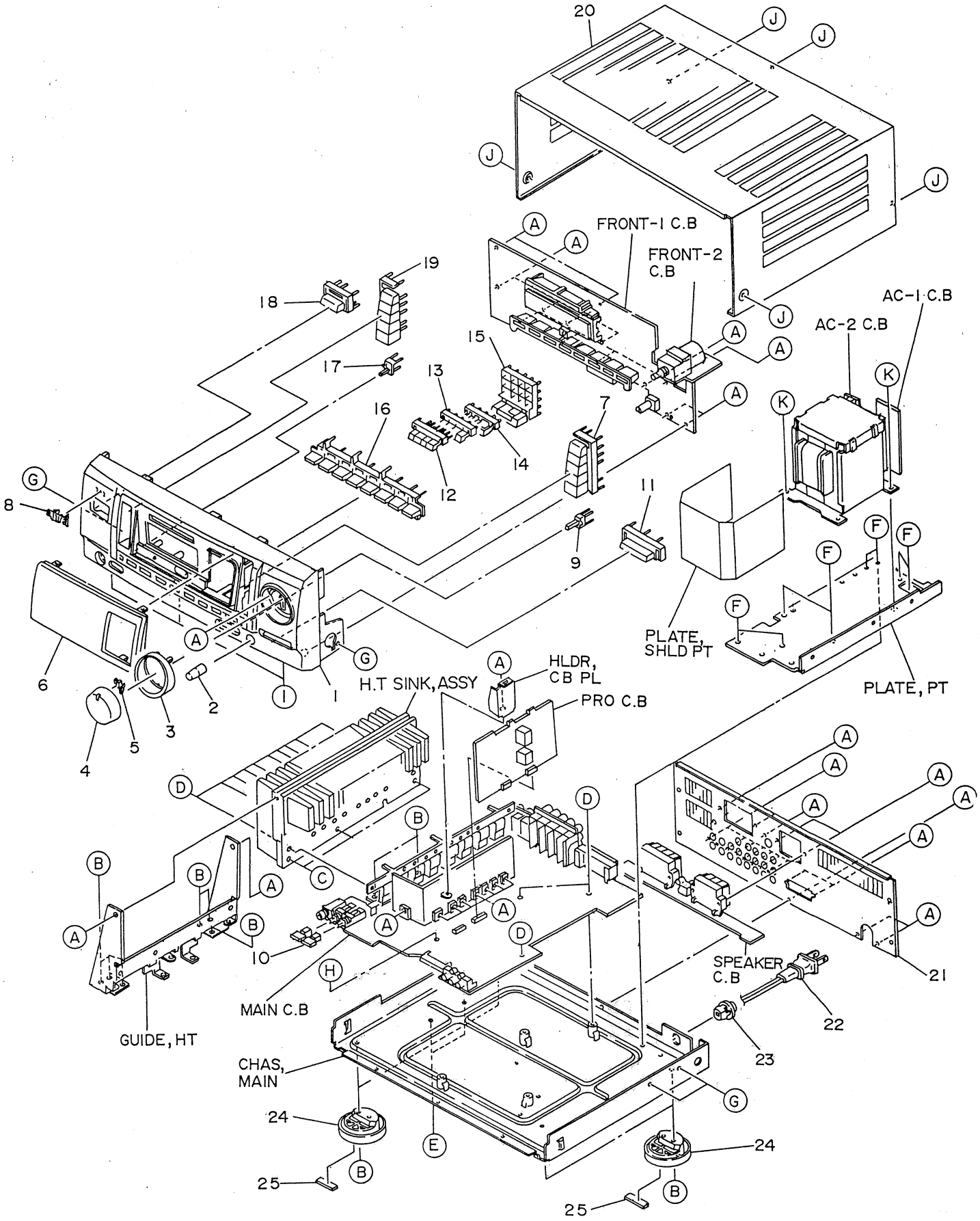
FL DISPLAY



ANODE CONNECTION

	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	2d	2d	2d	2d	2d	2d	2d	2d	T-BASS
P2	2n	2n	2n	2n	2n	2n	2n	2n	B3
P3	2p	2p	2p	2p	2p	2p	2p	2p	B2
P4	2r	2r	2r	2r	2r	2r	2r	2r	B1
P5	2e	2e	2e	2e	2e	2e	2e	2e	S1
P6	2c	2c	2c	2c	2c	2c	2c	2c	(BGM)
P7	2g	2g	2g	2g	2g	2g	2g	2g	(CLASSIC)
P8	2m	2m	2m	2m	2m	2m	2m	2m	(JAZZ)
P9	2f	2f	2f	2f	2f	2f	2f	2f	(POP)
P10	2b	2b	2b	2b	2b	2b	2b	2b	(ROCK)
P11	2k	2k	2k	2k	2k	2k	2k	2k	((#))
P12	2j	2j	2j	2j	2j	2j	2j	2j	#
P13	2h	2h	2h	2h	2h	2h	2h	2h	((b))
P14	2a	2a	2a	2a	2a	2a	2a	2a	b
P15	S4	|	1d	1d	1d	1d	SLEEP	S2	BBE
P16	(ARENA)	PM	1e	1e	1e	1e	MONO	AUTO	B6
P17	(HALL)	AM	1c	1c	1c	1c	((MONO))	—	B5
P18	(LIVE)	REC	1g	1g	1g	1g	—	—	B4
P19	(DANCE)	◴	1f	1f	1f	1f	—	—	—
P20	S3	—	1b	1b	1b	1b	—	—	—
P21	—	—	1a	1a	1a	1a	—	—	—
P22	—	—	Dp1	col1 (DOWN)	col2	MHz	—	—	—
P23	—	—	—	col1 (UP)	—	kHz	—	—	—

MECHANICAL EXPLODED VIEW 1/1



MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	87-AR7-002-010		CABI,FR U<X120>
1	87-AR6-002-010		CABI,FR U<X220U>
2	86-AR5-034-010		KNOB,RTRY MIC 2
3	86-AR5-018-010		RING,VOL
4	86-AR5-016-210		KNOB,RTRY VOL
5	86-AR5-017-010		REFLECTOR,VOL
6	86-AR5-020-110		WINDOW,DISPLAY
7	86-AR5-005-010		KEY,GEQ
8	82-NE8-032-010		BADGE,AIWA 27.5 ABS GLD
9	86-AR5-008-010		KEY,MUTE
10	86-AR5-009-010		KEY,SELECT
11	86-AR5-011-010		KEY,BBE
12	86-AR5-012-010		KEY,10 A
13	86-AR5-013-010		KEY,10 B
14	86-AR5-014-010		KEY,10 C
15	86-AR5-015-010		KEY,UP/DOWN
16	86-AR5-006-010		KEY,FUN
17	86-AR5-007-010		KEY,MODE
18	86-AR5-003-010		KEY,POWER
19	86-AR5-004-010		KEY,DSP
20	86-AR5-002-010		CABI,STEEL
21	87-AR7-006-010		PANEL,REAR U<X120>
21	87-AR6-007-010		PANEL,REAR UBN<X220U>
⚠ 22	87-050-053-010		AC CORD ASSY,U-2
23	87-085-189-010		BUSHING,AC CORD(U) CM-22C
24	86-AR5-023-010		FOOT,FR
25	82-VW2-211-010		FELT,20-7.5-2
A	87-067-703-010		BVT2+3-10 W/O SLOT
B	87-067-688-010		BVTT+3-6
C	87-067-758-010		BVT2+3-12 W/O SLOT
D	87-067-581-010		BVT2+3-15 W/O SLOT
E	87-067-585-010		BVTT+4-6
F	87-067-586-010		BVTT+4-8
G	87-591-095-410		QIT+3-8
H	87-067-632-010		BVT2+3-15 W/O SLOT W/CONVEX
I	87-067-716-010		BVTT+3-6 BLK
J	87-067-641-010		UTT2+3-8 W/O SLOT BLK
K	87-067-975-010		S-SCREW,IT+4-8 SWCH12A

ACCESSORIES LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	87-AR6-903-010		IB<X220>
1	87-AR7-903-010		IB<X120>
2	87-006-225-010		ANT,LOOP ANT NC2
3	87-043-115-010		FEEDER-ANT,FM
4	87-AR4-685-010		RC UNIT,RC-AR01<X220>
5	87-AR7-650-010		RC UNIT,RC-7AR02<X120>

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G— —	
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G— —	

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